HOME BUILDERS CATALOG



THE FRANKLIN INSTITUTE

HOME BUILDERS CATALOG CO.
CHICAGO NEW YORK

PRICE $10.00

FRANKLIN INSTITUTE LIBRARY
PHILADELPHIA
Class 690 Book H752 9
Accession 75938
REFERENCE
GIVEN BY
The Publishers

COPYRIGHT 1925 BY

HOME BUILDERS CATALOG CO.
431 SOUTH DEARBORN ST.
CHICAGO

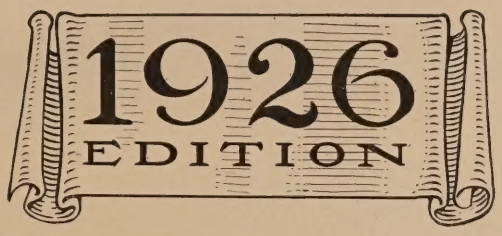
All Rights Reserved

APR 7 '26

DEDICATED TO Better Homes



HOME BUILDERS CATALOG



A REFERENCE WORK FOR BUILDING CONTRACTORS AND HOME OWNERS

CONTAINING

AUTHENTIC INFORMATION ON ALL KINDS OF BUILDING MATERIALS AND HOME EQUIPMENT

AND

HUNDREDS OF ORIGINAL DESIGNS AND PLANS FOR THE HOME BUILDING BRANCH OF THE CONSTRUCTION INDUSTRY

COMPILED, EDITED AND PUBLISHED ANNUALLY BY

HOME BUILDERS CATALOG CO.

CHICAGO - - - NEW YORK

FOREWORD

THIS BOOK is dedicated to the Home Builders of America in the sincere hope that by its aid their standard of living may be further raised, the design of American homes improved and their comforts increased.

Investigation having shown that 90 per cent of the homes built in this country cost from $3,500 to $15,000, the houses illustrated in this book are confined to those falling within these price limits.

HOME BUILDERS CATALOG is designed, not for millionaires, but for the millions—for that great mass of the American people who are the life-blood of the nation and whom **Lincoln** said "God must have loved because he made so many of them."

The largest investment ever made by the average family is the sum of money invested in a home. How necessary, then, it is that every precaution should be taken to safeguard this investment and to make it a source of lasting satisfaction—the satisfaction that can be derived only from a home that is attractive in appearance, convenient in arrangement, and thoroughly well built of time-tested and reliable materials.

In the Manufacturers' Section of HOME BUILDERS CATALOG will be found authentic information on each class of building material and on other products necessary for the construction and equipment of the home, and in the Plan Section are hundreds of attractive designs of houses, **each of which has actually been built.** The illustrations are from photographs, giving a clearer idea of how the house will look when finished than can possibly be conveyed by an imaginary sketch.

A careful study of the floor plans will reveal many unique features designed to add to the comfort and convenience of the home without materially increasing its cost. Complete working blue-print plans of any house illustrated can be obtained through the building contractor whose name appears on the front cover of this book.

Of this 1926 edition of HOME BUILDERS CATALOG 20,000 copies were printed and distributed to leading building contractors who specialize in home construction. Copies are also on file in many public libraries. With this broad distribution it is hoped and believed that the helpful information contained in this book will be available to hundreds of thousands of home builders and will aid them, with the help of their building contractor, in securing more attractive, substantial and conveniently arranged homes than would otherwise have been possible.

We advocate maximum dealer distribution.

75938

To The User of This Catalog

Your Co-operation is Respectfully Requested

Do Not Tear Pages, Nor Clip Illustrations From This Catalog

—and thus impair its usefulness to yourself and others, but let us know what pages are wanted and separate proofs will be mailed to you promptly without charge.

HOW TO USE THIS CATALOG

See Pages 495 and 496 For Details

SERVICE DEPARTMENT

Users of this catalog can obtain from the publishers, on request, information regarding any kind of home building material or equipment not listed.

New construction materials and home equipment are being constantly produced so that before the end of the present year there will be many new improved products available for the building contractor and home builder that were not obtainable when this catalog was printed.

Our Service Department keeps in close touch with all new developments in the home construction field and will be glad to furnish any desired information pertaining to this branch of the building industry.

If this 1926 edition of HOME BUILDERS CATALOG does not include all of the products in which you are interested, we would be glad to have you call such omissions to our attention for our guidance in increasing the usefulness of this reference work in future editions.

BUILDING PLAN SERVICE

See pages 513 to 519 for particulars of Building Plan Service available to users of HOME BUILDERS CATALOG.

Address all communications to:

Home Builders Catalog Co.

431 SOUTH DEARBORN ST., CHICAGO

LIST OF MANUFACTURERS
Whose Products are Catalogued in this Issue

A

A-B Stove Company 426-27
Ajax Building Bracket Company 482
Alberene Stone Company 344-45
Allen Window Co. of America 213
Alliance Brick Company 46A-B-C-D
Allith-Prouty Co. 262-63
Alpha Portland Cement Company 33
Amalgamated Roofing Co 138-39
American Bed Company 445
American Blower Co 406
American Blue Print Paper Co 478-79
American Face Brick Association 39-41
American Floor Surfacing Machine Co 488
American Gas Association 410-13
American Gypsum Company 118-19
American Heating & Lighting Co.
  Gas Producer 409
  Water Heater 416
American Insulation Company 140-41
American Magnestone Corporation 82
American Radiator Company.
  Boilers 388-89
  Heaters 383
American Window Glass Company 286B
American Wire Fabrics Corporation 295
Anchor Concrete Machinery Co ..... 76; also 70-75
Andersen Lumber Company 188-89
Andes Range and Furnace Corp 356-57
Apollo Steel Co. 77-79
Armstrong Cork & Insulation Company 106
Art Stone Block Co. 77-79
Asbestos Shingle Slate and Sheathing
  Company 144
Associated Metal Lath Manufacturers 89-91
Atlas Cinder Block Corp. 77-79

B

Baker, W. J., Company, Inc. 292
Beaver Products Company, Inc.,
  Roofing Materials 142-43
  Wall Materials 120-21
Beckman-Dawson Roofing Company 145
Belden Brick Co. 42-43
Bergen Building Block Co. 77-79
Berger Mfg. Co. 80-81
Berks Building Block Co. 77-79
Bertelsen Adjustable Grille Co. 196
Bessler Disappearing Stairway Co 214
Bommer Spring Hinge Company 258-59
Bird & Son, Inc. 146
Bishopric Manufacturing Co 497-98
Breinig Brothers, Inc 457
Bruce, E. L., Co. 183
Buffalo Forge Company 407
Building Materials Co. 77-79
Burnham Boiler Corporation 387

C

Cabot, Samuel, Inc.,
  Insulation 107
  Shingles 157
California White & Sugar Pine Manufacturers Association 164-66
Canton Brick and Fireproofing Co 44-45
Casement Hardware Co 245
Celotex Company 108-111
Chamberlin Metal Weatherstrip Co., Inc 288-89
Chemical Toilet Corporation 334
Church, C. F., Mfg. Co. 341
Chicago Faucet Company 342
Chickamauga Cedar Co. 224
Cincrete, Inc. 77-79
Cincrete Products Corp. 77-79
Cinder Block Co. 77-79
Cinder Block Corp. 77-79
Cinder Brick & Tile Co. 77-79
Cinder Tile Company, Inc. 77-79
Claycraft Mining & Brick Co 46
Cleveland Gas Burner & Appliance Co 414-15
Clinton Metallic Paint Company 60A-B-C-D
Co-operative Foundry Company,
  Furnaces 359
  Furnola 384
  Gas Ranges 428
Cole Manufacturing Co 358
Colonial Fireplace Company 275
Columbia Metal Box Company 346
Combination Blow Torch Mfg. Co 481
Common Brick Mfr's Associaton of America. 38
Concealed Bed Corporation 440-41
Concrete Block Manufacturers 70-75
Concrete Specialties Co. 77-79
Concrete Structural Units, Inc. 77-79
Conkey, H. D., & Company 47
Covert, H. W., Company 276
Craftex Company 452-53
Crane Company,
  Plumbing 338-39
  Water Heaters 417
  Water Systems 324
Creo-Dipt Company 156A-B
Crescent Steel Company 227
Crittall Casement Window Co 228-31
Crooks-Dittmar Company 184-85
Curtis Companies Service Bureau 190-91
  Curtis, Bro. & Co. 190-91
  Curtis Companies, Inc 190-91
  Curtis Detroit Co. 190-91
  Curtis Door & Sash Co. 190-91
  Curtis, Sash & Door Co. 190-91
  Curtis, Towle & Paine Co. 190-91
  Curtis-Yale-Holland Co. 190-91
  Curtis & Yale Co. 190-91

List of Manufacturers, (Continued)

D

Dahlquist Mfg. Co. 418
Dail Steel Products Co 335
Dambacker, A., & Sons 77-79
Delco Light Co. 472
Delvan Block Co. 77-79
Detroit Cinder Block & Tile Co. 77-79
Detroit Steel Products Company 232
Diamond Metal Weather Strip Co 287
Dietzgen, Eugene Co. 480
Domestic Science Division.—see
McDougall Company 220-21
Donley Brothers Co. 277
Doyle, J. W., Company 382

E

Ebsary Gypsum Company, Inc. 95
Edgecumbe-Newham Co., Limited 162
Electric Door Corporation 270
Electric Rotary Machine Co. 489
Elite Manufacturing Co. 483
Elmira Building Units, Inc. 77-79
Emack, John D., Co. 132-33
Erie Patent Block Co. 77-79
Estate Stove Company 385
Everhot Heater Company 419

F

Fairmont Wall Plaster Co. 77-79
Farley & Loetscher Mfg. Co.,
Disappearing Stairway 215
Millwork 192-93
Federal Steel Sash Co 233
Finch & Ostrander, Inc. 77-79
Flint Cinder Block & Products Co. 77-79
Flintkote Company 135-37
Flint Rock Stucco Company, Inc.,
Stucco 83
Stucco Base 98
Flint & Walling Mfg. Co 325
Fort Wayne Engineering & Mfg. Co 326

G

Gabriel Steel Company 282-83
Garland Block & Sand Co. 77-79
General Electric Company 304-23
Goder Incinerator Corporation 297
Greening Landscape Company 474-77
Greening Nursery Company 474-77
Gulf Red Cypress Company 172
Gurley Pump & Manufacturing Co 327

H

Hall-Neal Furnace Company 360
Harrisburg Building Block Co. 77-79
Hart & Cooley Company, Inc. 374-77
Hartford Cinder Block Co. 77-79
Hartford Fire Insurance Co. ..... Inside back cover
Hawkins-Paulson Co. 77-79
Healy-Ruff Company 408
Henry Furnace & Foundry Co. 361
Herwig Company 466
Hess Warming & Ventilating Company,
Furnaces 362
Medicine Cabinets 347
Higgin Manufacturing Co.,
Weather Strips 290
Screens 293
Hoffman, Andrew, Mfg. Co. 234-36
Holland Furnace Company 363
Hollow Building Tile Association 66-67
Hollywood Building Block Co. 77-79
Holmes Disappearing Bed Company 440-41
Holyoke Heater Company 420
Hoosier Building Tile & Silo Co.,
Hollow Brick 57-60
Tile 64-65
Hotstream Heater Co. 421
Hudson Fireproof Block Co. 77-79
Hungerford, U. T. Brass & Copper Co. 294
Hunt-Helm-Ferris & Co., Inc.
Garage Hardware 264-65
Barn Equipment 272-73
Hurd Lumber & Woodwork Co. 194-95
Huston-Cannonsburg Cinder Co. 77-79

I

Ideal Cement Stone Co. 77-79
Ideal Concrete Machinery Co. 70-75
Illinois Cinder Block Co. 77-79
Illinois Refrigerator Company 469
Ironclay Brick Company 50

J

Jackson, Edwin A., & Bro., Inc. 492
Jaeger Machine Co. 484
Jaeger Portable Machinery Co. 492
Jamestown Block & Tile Co. 77-79
Johnson, S. C., & Son 458-59
Jones, Fred G., & Co. Inc 197
Juniata Reconstruction Stone Co. 77-79

K

Kaustine Company, Inc. 336
Kelley Island Line & Transport Co 104-05
Kelvinator Corporation 473
Kerner Incinerator Co. 298-99
Kewanee Private Utilities Co. 328
Klug, Peter 77-79
Knape & Vogt Mfg. Company 252-53
Koehring Company,
Concrete Mixers 485
Gasoline Shovels 494
Kwik-Mix Concrete Mixer Co 486

L

Lancaster Concrete Tile Co. 77-79
Lane, Arthur E., Lumber Corp.,
Cedar 225
Shingles 162

List of Manufacturers, (Continued)

Lawson, F. H., Company 348
Lehon Company 148-49
Limestone Products Corporation of America. 99
Lincoln-Schlueter Mchy. Co. 490
Lockport Paper Company 147
Logan-Long Company 150-51
Long, E. M., & Sons 187
Ludowici-Celadon Company 134
Lupton's, David, Sons Company 238-41
Lurie Products 271

Mc

McArthur Brick Company 48-49
McCormick & Drury 77-79
McCray Refrigerator Sales Corporation 470-71
McDougall Co. 220-21
McKinney Manufacturing Company 260

M

Majestic Company 284-85
Majestic Steel Cabinet Co.
Kitchen Equipment 218-19
Medicine Cabinets 349
Magnesite Products Company 84
Manitowoc Portland Cement Co. 36
Maple Flooring Manufacturers Association .. 180-81
Mascot Stove Manufacturing Company 429
Mauk, C. A., Lumber Company 162A-B
Mesker Bros. Iron Co. 281
Metropolitan Paving Brick Co. 52-53
Miles Manufacturing Co 70-75
Minneapolis Heat Regulator Co 404-05
Moline Cast Stone Co. 77-79
Monarch Engineering Co. 329
Monarch Metal Products Co.,
Casement Hardware 246
Weatherstrips 291
Moore, Benjamin, & Co 460-61
Morene Products Co., Inc 454-55
Morgan Woodwork Organization 198-204
Morgan Co.—see
Morgan Woodwork Organization 198-204
Morgan Millwork Company.—see
Morgan Woodwork Organization 198-204
Morgan Sash & Door Co.—see
Morgan Woodwork Organization 198-204
Morton Mfg. Company 350
Mueller Co. 343
Mueller, L. J., Furnace Co.,
Furnaces 364
Heaters 386
Registers 380
Muller, Franklyn R., Inc. 85
Murphy Door Bed Company 442-44
Myers, F. E., & Bro. Co. 330-31

N

National Asbestos Shingle Corporation 152
National Cinder Concrete Products Association 77-79
National Council for Better Plastering 88
National Fireproofing Company 68-69
National Roofing Company 153
National Steel Products Company 237
National Warm Air Heating & Ventilating Ass'n 353-55
Nazareth Cement Co. 37
Nepeuma Building Materials Co. 77-79
New York Blue Print Paper Company 478-79
Noble, Thomas W., & Co. 70-75
Norfolk Building Block Corp. 77-79
Northern Hemlock & Hardwood Mfg. Association and Rotary Birch Club 167
Northern Hemlock Mfr's of Mich. and Wis.. 173
Nugent, Thos., Sons, Inc. 365

O

Oak Flooring Bureau 182
Oakland Foundry Company 366
Ohio Hydrate & Supply Co 100-01
Oliver Oil Burner Corporation 403
Onan, D. W., & Sons 491

P

Pacific Lumber Company 175
Pacific Timber Company 158-59
Pantasote Company, Inc 122-23
Patented Building Block Co. 77-79
Penberthy Injector Company 333
Penn-Greg Manufacturing Co. 251
Penn Hardware Company 256-57
Penn Brick Corporation 51
Peerless Manufacturing Co 279
Philadelphia Partition & Building Block Co. 77-79
Phoenix Cabinet Company, Inc. 205
Pittsburg Water Heater Company 422
Plastergon Wall Board Company 124
Pottsville Building Block Co. 77-79
Pyramid Company 86

R

Receivador Sales Company 254-55
Red Cedar Lumber Manufacturers' Ass'n ... 168
Reynolds, H. M., Shingle Company 154
Richards-Wilcox Mfg. Company,
Window Hardware 247
Garage Hardware 266-67
Richardson & Boynton Co.
Boilers 390-93
Furnaces 367-69
Ranges 430-33
Tank Heaters 400
Richardson Company 499-500
Richmond Patented Building Block Corp ... 77-79

List of Manufacturers, (Continued)

Rite-Grade Shingle Association..... 169
Ritter, W. M., Lumber Company..... 186
Roberts & Mander Stove Co.....434-35
Roberts Sash & Door Company.....206-07
Rochester Cinder Block Corp..... 77-79
Rock Island Register Company.....378-79
Rock Plaster Corporation..... 96
Roddis Lumber & Veneer Company.....208-09
Roll-A-Way Bed Corporation.....446-47

S

Safepack Mills 155
Sall Mountain Company..... 156
Samson Cordage Works..... 274
Sandusky Cement Company..... 34-35
Schwab, R. J., & Sons Company.....370-71
Seattle Cedar Lumber Mfg. Co..... 225
Sedgwick Machine Works..... 226
Sharon Hardware Manufacturing Co..... 268
Shreffler, James L..... 77-79
Shufflin & Green..... 77-79
Silvers Manufacturing Co..... 351
Smith, L. T..... 77-79
Smith, T. L. Company..... 487
Southern Cypress Manufacturers' Ass'n...170-71
Southern Pine Sales Corporation.....176-77
Springfield Cinder Block Co..... 77-79
Standard Engineering & Manufacturing Co..394-95
Standard Heater Company.....396-97
Standard Iron & Wire Works,
Fixtures 467
Iron Work 296
Stanley Works,
Builders' Hardware 261
Garage Hardware 269
Sterling Brick Company..... 54
Sterling Foundry Company..... 286
Sterling Range & Furnace Corp.....436-37
Sterling Wheelbarrow Company..... 493
Stover Manufacturing & Engine Co..... 280
Straub Building Units, Inc..... 77-79
Straub Cincrete Company 77-79
Straub Cincrete Corporation..... 77-79
Straub Cinder Block Co..... 77-79
Sykes Metal Lath Co..... 92

T

Thatcher Company,
Boilers 398-99
Furnaces 372
Ranges 438
Thermal Appliance Company..... 401
Thrush, H. A., & Co..... 402
Thompson, Frank H..... 77-79
Tinkham & Kilburn..... 77-79
Trenton Potteries Co..... 340
Truscon Steel Company.....242-43
Tuttle & Bailey Mfg. Co..... 381

U

Union Metal Manufacturing Co.....216-17
United States Gypsum Company,
Insulation 117
Plasters 97
Stucco 87
Sheathing 127
Wallboard 125
Wall Finish 456
United States Mineral Wool Company..... 116
Universal Gypsum Company,
Insulation 115
Wallboard 126
Upson Company 128-31
Utica Heater Company..... 373

V

Vaile-Kimes Company..... 332
Valentine & Company.....462-65
Valley View Brick Co..... 55

W

Washington Concrete Products Corp..... 77-79
Wasmuth-Endicott Company.....222-23
Watsontown Door & Sash Co.....210-11
Weatherbest Stained Shingle Co., Inc.....160-61
Welsbach Company,
Gas Heaters 439
Lighting Fixtures 468
Water Heaters 423
Western Architectural Iron Company..... 244
Western Brick Company..... 56
Western Metal Specialty Company..... 337
Western Pine Mfr's Association..... 174
Wheeler, Osgood Company.....212A-B
Wheeling Corrugating Company,
Conductor Pipe 163
Metal Lath 93
"White" Door Bed Company.....448-51
"White Steel" Sanitary Furniture Co..... 352
Whitney, Vincent Company.....248-49
Wickwire Spencer Steel Company,
Screen Cloth 295
Wire Lath 94
Wilbur Lumber Company..... 212
Wilkins, George Lester..... 250
Williams, C. K., & Co..... 61-63
Wilson-Wetmore Lumber Co..... 77-79
Wood Conversion Company.....112-14
Wood, John, Manufacturing Company.....424-25
Woodville Lime Products Company.....102-03
Wright Rubber Products Company.....178-79

Y

Youngstown Pressed Steel Company..... 286A

INDEX of Products

Alphabetically Arranged

A

ADJUSTERS—Casement Window
Casement Hardware Co..... 245
Hoffman, Andrew, Mfg. Co.....234-36
Monarch Metal Products Co..... 246
Richards-Wilcox Mfg. Co..... 247
Whitney, Vincent, Co.....248-49
Wilkins, George Lester..... 250

ANCHORS
Concrete Inserts
Sterling Foundry Co..... 286
Wall Ties
Sykes Metal Lath Co..... 92
Wheeling Corrugating Co.....93, 163
Youngstown Pressed Steel Co.... 286 a

ANDIRONS
Colonial Fireplace Co..... 275
Covert, H. W., Co..... 276
Donley Bros. Co..... 277
Jackson, Edwin A., & Bro., Inc.. 278
Peerless Mfg. Co., Inc.....279
Stover Mfg. & Engine Co..... 280

ANNUNCIATORS—House—Electric
General Electric Co.....304-23

ARCHITECTURAL SUPPLIES
Dietzgen, Eugene, Co..... 480
New York Blue Print Paper Co.478-79

ASBESTOS SHINGLES
American Insulation Co.....140-41
Asbestos Shingle Slate & Sheathing Co. 144
National Asbestos Shingle Corp.. 152

ASH DUMPS—Fireplace
Colonial Fireplace Co..... 275
Covert, H. W., Co..... 276
Donley Bros. Co..... 277
Gabriel Steel Co.....282-83
Jackson, Edwin A., & Bro., Inc... 278
Majestic Co. 284-85
Peerless Mfg. Co., Inc..... 279
Stover Mfg. & Engine Co..... 280
Youngstown Pressed Steel Co...286 a

ASH HOISTS
Sedgwick Machine Works..... 226

ASH PIT DOORS—Fireplace
Colonial Fireplace Co..... 275
Covert, H. W., Co. 276
Donley Bros., Co. 277
Gabriel Steel Co.....282-83
Majestic Co. 284-85
Peerless Mfg. Co., Inc..... 279
Stover Mfg. & Engineering Co. .. 280
Sykes Metal Lath Co..... 92
Youngstown Pressed Steel Co....286 a

ASPHALT SHINGLES
Amalgamated Roofing Co.....138-39
Beaver Products Co., Inc.....142-43

ASPHALT SHINGLES—(Cont.)
Beckman-Dawson Roofing Co.... 145
Bird & Son, Inc..... 146
Flintkote Co.....135-37
Lehon Co.....148-49
Lockport Paper Co..... 147
Logan-Long Co.....150-51
National Roofing Co..... 153
Reynolds, H. M., Shingle Co..... 154
Richardson Co.....499-500
Safepack Mills..... 155
Sall Mountain Co..... 156

ASSOCIATIONS
American Face Brick Ass'n.....39-41
American Gas Ass'n.....410-13
Associated Metal Lath Mfrs.....89-91
California White & Sugar Pine Mfrs. Ass'n.....164-66
Common Brick Manufacturers Ass'n of America..... 38
Concrete Block Mfrs.....70-75
Hollow Building Tile Ass'n.....66-67
Maple Flooring Mfrs. Ass'n.....180-81
National Cinder Concrete Products Ass'n 77-79
National Council for Better Plastering 88
National Warm Air Heating & Ventilating Ass'n.....353-55
Northern Hemlock Mfrs. of Michigan and Wisconsin..... 173
Northern Hemlock & Hardwood Mfrs. Ass'n & Rotary Birch Club 167
Oak Flooring Bureau..... 182
Red Cedar Lumber Mfrs. Ass'n.. 168
Southern Cypress Mfrs. Ass'n..170-71
Western Pine Mfrs. Ass'n.....174

ATTIC—Disappearing Stairs
Bessler Disappearing Stairway Co. 214
Farley & Loetscher Mfg. Co..... 215

B

BALCONIES—Railings—Iron
Standard Iron & Wire Works.... 296

BARN EQUIPMENT
Allith-Prouty Co.....262-63
Hunt-Helm-Ferris & Co., Inc...264-65
Richards-Wilcox Mfg. Co.....266-67

BASEMENT WINDOWS—Steel
Crescent Steel Co..... 227
Detroit Steel Products Co..... 232
Donley Bros. Co.....277
Federal Steel Sash Co..... 233
Lupton's, David, Sons Co.....238-41
Mesker Bros. Iron Co..... 281
National Steel Products Co..... 237
Sykes Metal Lath Co..... 92
Truscon Steel Co.....242-43
Western Architectural Iron Co... 244
Youngstown Pressed Steel Co...286 a

BATHROOM FIXTURES—Tubs—Lavatories—Closets—Showers, Etc.
Crane Co.....338-39
Trenton Potteries Co..... 340
Toilet Seats
Church, C. F., Mfg. Co..... 341

BEADS—Corner
Sykes Metal Lath Co..... 92
Truscon Steel Co.....242-43
Wheeling Corrugating Co. 93
Youngstown Pressed Steel Co. .. 286 a

BEDS—Disappearing
American Bed Co..... 445
Concealed Bed Corp.....440-41
Holmes Disappearing Bed Co...440-41
Murphy Door Bed Co.....442-44
Roll-A-Way Bed Corp.....446-47
"White" Door Bed Co.....448-51

BEECH—Lumber—Flooring
Maple Flooring Manufacturers Ass'n. 180-81

BELLS AND BUZZERS—Electric
General Electric Co.....304-23

BIRCH—Lumber—Flooring
Maple Flooring Manufacturers Ass'n 180-81
Northern Hemlock and Hardwood Manufacturers Ass'n and Rotary Birch Club..... 167

BLINDS—Window
Curtis Companies Service Bureau 190-91
Farley & Loetscher Manufacturing Co. 192-93
Hurd Lumber and Woodwork Co. 194-95
Jones, Fred G., & Co..... 197
Morgan Woodwork Organization 198-204
Roberts Sash & Door Co.....206-07
Watsontown Door & Sash Co...210-11
Wilbur Lumber Co..... 212

BLOCKS
Cinder Concrete
Straub Cincrete Corp. 77-79
Gypsum
American Gypsum Co..... 118
Beaver Products Co., Inc.....120-21
Ebsary Gypsum Co., Inc..... 95
Rock Plaster Corp..... 96
United States Gypsum Co..... 125
Universal Gypsum Co..... 126
Hollow Concrete
Concrete Block Manufacturers..70-75

BLOCKS—(Cont.)
Hollow Tile
Alliance Brick Co.....46 a-b-c-d
Conkey, H. D., & Co..... 47
Hollow Building Tile Ass'n.....66-67
Hoosier Building Tile & Silo Co.64-65
National Fireproofing Co.....68-69

BLUE PRINT PAPER
Dietzgen, Eugene, Co..... 480
New York Blue Print Paper Co.478-79

BOILER INSULATION
Doyle, J. W., Co..... 382
Sall Mountain Co..... 157
United States Mineral Wool Co.. 116

BOILERS
Hot Water and Steam
American Radiator Co.....388-89
Burnham Boiler Corp..... 387
Mueller, L. J., Furnace Co..... 364
Richardson & Boynton Co.....390-93
Standard Engineering & Mfg. Co. 394-95
Standard Heater Co. 396-97
Thatcher Co.....398-99
Range
Crane Co..... 417
Dahlquist Manufacturing Co.....418
Hungerford, U. T., Brass & Copper Co. 294
Wood, John, Manufacturing Co.424-25

BOOKCASES
Bertelsen Adjustable Grille Co.... 196
Curtis Companies Service Bureau 190-91
Farley & Loetscher Manufacturing Co. 192-93
Hurd Lumber & Woodwork Co.194-95
Jones, Fred G., & Co..... 197
Morgan Woodwork Organization 198-204
Roberts Sash & Door Co.....206-07
Watsontown Door & Sash Co...210-11
Wilbur Lumber Co..... 212

BOXES
Outlet—Electric For All Purposes
General Electric Co.....304-23
Mail—Built-In
Penn-Greg Mfg. Co..... 251

BRACKETS
Radiator
Healy-Ruff Co..... 408
Scaffold
Ajax Building Bracket Co.....482
Elite Manufacturing Co.....483
Gabriel Steel Co.....282-83

BRANCH CONDUCTORS—Electric
General Electric Co.....304-23

BRANDING IRONS
Combination Blow Torch Mfg. Co.481

BREAKFAST
Nooks—Niches
Curtis Companies Service Bureau 190-91
Farley & Loetscher Manufacturing Co. 192-93
Hurd Lumber & Woodwork Co.194-95

BREAKFAST
Nooks—Niches—(Cont.)
Jones, Fred G., & Co.....197
Morgan Woodwork Organization 198-204
Roberts Sash & Door Co.....206-07
Watsontown Door & Sash Co..210-11
Wilbur Lumber Co..... 212
Rooms—Fold-Away
Wasmuth-Endicott Co.....222-23

BRICK
Cinder Concrete
Straub Cincrete Corp. 77-79
Common
Common Brick Manufacturer's Ass'n of America..... 38
Concrete
Concrete Block Manufacturer's..70-75
Face or Front
Alliance Brick Co.....46 a-b-c-d
American Face Brick Association.39-41
Belden Brick Co.....42-43
Canton Brick & Fireproofing Co.44-45
Claycraft Mining & Brick Co..... 46
Conkey, H. D., & Co..... 47
Ironclay Brick Co..... 50
McArthur Brick Co.....48-49
Metropolitan Paving Brick Co...52-53
Penn Brick Corp..... 51
Sterling Brick Co..... 54
Valley View Brick Co..... 55
Western Brick Co..... 56
Hollow
Hoosier Building Tile & Silo Co.57-60

BROOM CLOSETS—Built-in
Majestic Steel Cabinet Co.....218-19
McDougal Co.....220-21
Murphy Door Bed Co.....442-44
Wasmuth-Endicott Co.....222-23
"White" Door Bed Co.....448-51

BUFFETS
Bertelsen Adjustable Grille Co....196
Curtis Companies Service Bureau 190-91
Farley & Loetscher Manufacturing Co. 192-93
Hurd Lumber & Woodwork Co.194-95
Jones, Fred G., & Co..... 197
Morgan Woodwork Organization 198-204
Roberts Sash & Door Co..... 206-07
Watsontown Door & Sash Co..210-11
Wilbur Lumber Co..... 212

BUILDERS' HARDWARE
Bommer Spring Hinge Co.....258-59
McKinney Manufacturing Co..... 260
Penn Hardware Co.....256-57
Sharon Hardware Mfg. Co..... 268
Stanley Works..... 261

BUILDING PAPER
Beaver Products Co., Inc.....142-43
Bird & Son, Inc..... 146
Cabot, Samuel, Inc. 107
Flintkote Co.....135-37
Lehon Co.....148-49
Safepack Mills..... 155

BUMPERS AND STOPS—Door
Bommer Spring Hinge Co.....258-59

BURGLAR ALARMS—Electric
General Electric Co.....304-23

BURNERS
Gas and Jet
Cleveland Gas Burner & Appliance Co.....414-15
Garbage or Refuse
Goder Incinerator Corp..... 297
Kerner Incinerator Co.....98-99
Oil
Cole Manufacturing Co..... 358
Oliver Oil Burner Corp..... 403

BUTTS
Bommer Spring Hinge Co.....258-59
McKinney Mfg. Co..... 260
Penn Hardware Co.....256-57
Sharon Hardware Mfg. Co..... 268
Stanley Works..... 261

BUZZERS—Electric
General Electric Co.....304-23

C

CABINETS
Blue Print and Plans
Dietzgen, Eugene, Co..... 480
New York Blue Print Paper Co.478-79
Broom (See Closets—Broom)
Cabinet Work—Steel
Majestic Steel Cabinet Co.....218-19
Murphy Door Bed Co.....442-44
"White" Door Bed Co.....448-51
Cabinet Work—Wood
Bertelsen Adjustable Grille Co.....196
Curtis Companies Service Bureau 190-91
Farley & Loetscher Manufacturing Co. 192-93
Hurd Lumber & Woodwork Co.194-95
Jones, Fred G., & Co..... 197
McDougall Co.....220-21
Morgan Woodwork Organization 198-204
Roberts Sash & Door Co.....206-07
Wasmuth-Endicott Co.....222-23
Watsontown Door & Sash Co...210-11
Wilbur Lumber Co..... 212
Ironing Board (See Ironing Boards.)
Kitchen combined with Gas Range. (See Ranges—Gas and Kitchen Cabinet Combination.)
Kitchen—Steel
Majestic Steel Cabinet Co.....218-19
Murphy Door Bed Co.....442-44
"White" Door Bed Co.....448-51
Kitchen—Wood
McDougall Co.....220-21
Wasmuth-Endicott Co.....222-23
"White" Door Bed Co.....448-51
Kitchen and Refrigerator Combination. (See Refrigerator—Kitchen Cabinet Combination.)

CABINETS—(Cont.)
Medicine—Steel
Columbia Metal Box Co..... 346
Hess Warming & Ventilating Co. 347
Lawson, J. H., Co..... 348
Majestic Steel Cabinet Co..... 349
Murphy Door Bed Co.....442-44
Morton Mfg. Co..... 350
Silvers Mfg. Co..... 351
"White Steel" Sanitary Furniture Co. 352
"White" Door Bed Co.....448-51
Medicine—Wood
Curtis Companies Service Bureau 190-91
Farley & Loetscher Manufacturing Co. 192-93
Hurd Lumber & Woodwork Co.194-95
Jones, Fred G., & Co..... 197
Morgan Woodwork Organization 198-204
Roberts Sash & Door Co..... 206-07
Wasmuth-Endicott Co.....222-23
Watsontown Door & Sash Co..210-11
Wilbur Lumber Co..... 212
Panel Board—Electric
General Electric Co.....304-23
Radiator—Cover or Enclosure
Columbia Metal Box Co..... 346
Tuttle & Bailey Mfg. Co..... 381
Telephone—Built-In
Jones, Fred. G., & Co. 197
Majestic Steel Cabinet Co..... 349
Phoenix Cabinet Co., Inc..... 205

CALKING
Chamberlin Metal Weather Strip 288-89
Diamond Metal Weatherstrip Co.. 287

CARPENTER'S LEVEL
Dietzgen, Eugene, Co..... 480
New York Blue Print Paper Co. 478-79

CARPENTER'S SAW HORSE
Gabriel Steel Co.....282-83

CARRIERS
Feed—Litter
Hunt-Helm-Ferris & Co., Inc...272-73
Garment
Knape & Vogt Mfg. Co.....252-53

CASEMENT WINDOW HARDWARE
Casement Hardware Co... 245
Hoffman, Andrew Mfg. Co. 234-36
Monarch Metal Products Co..... 246
Richards-Wilcox Mfg. Co..... 247
Whitney, Vincent, Co.....248-49
Wilkins, George Lester..... 250

CASEMENT WINDOWS—Bronze or Steel
Crittall Casement Window Co...228-31
Detroit Steel Products Co..... 232
Hoffman, Andrew, Mfg. Co.....234-36
Lupton's, David, Sons Co.....238-41
Mesker Bros. Iron Co..... 281
Truscon Steel Co.....242-43

CEDAR—Red
Chickamauga Cedar Co..... 224
Lane, Arthur E., Lumber Corp.... 225
Red Cedar Lumber Mfrs. Ass'n.. 168
Seattle Cedar Lbr. Mfg. Co..... 225

CEILINGS—Metal
Berger Mfg. Co.....80-81
Wheeling Corrugating Co..... 93

CEILING RECEPTACLES—Electric
General Electric Co.....304-23

CELLAR DRAINERS
Penberthy Injector Co..... 333

CEMENT
Colors. (See Colors—Mortar—Cement—Stucco.)
Plasters. (See Plasters.)
Portland
Alpha Portland Cement Co..... 33
Manitowoc Portland Cement Co.. 36
Nazareth Cement Co..... 37
Sandusky Cement Co.....34-35
Portland—Waterproofed
Sandusky Cement Co.....34-35
Portland—White
Sandusky Cement Co.....34-35

CHANNELS—Furring, Studding, etc.—Metal.
Berger Mfg. Co.....80-81
Gabriel Steel Co.....282-83
Youngstown Pressed Steel Co... 286 a

CHECKS AND CLOSERS—Door
Bommer Spring Hinge Co.....258-59
McKinney Mfg. Co..... 260
Penn Hardware Co.....256-57
Richards-Wilcox Mfg. Co.....266-67
Sharon Hardware Co..... 268
Stanley Works.....269

CHEMICAL TOILETS
Chemical Toilet Corp.....334
Dail Steel Products Co.....335
Kaustine Co., Inc.....336
Western Metal Specialty Co..... 337

CHUTES—Coal—Cellar Window
Donley Bros. Co.....277
Gabriel Steel Co.....282-83
Jackson, Edwin A., & Bro., Inc... 278
Majestic Co.....284-85
Mesker Bros. Iron Co..... 281
Peerless Mfg. Co..... 279
Sterling Foundry Co..... 286
Stover Mfg. & Engine Co..... 280
Youngstown Pressed Steel Co... 286 a

CINDER CONCRETE
Straub Cincrete Corp.....77-79

CLOSET
Garment Carriers—Clothes Fixtures
Knape & Vogt Mfg. Co. 252-53
Lining—Cedar
Bruce, E. L., Co..... 183
Chickamauga Cedar Co..... 224
Lane, Arthur E., Lbr. Corp..... 225
Seattle Cedar Lbr. Mfrs..... 225
Seats
Church, C. F., Mfg. Co..... 341

CLOSETS
Broom—Built-In
Majestic Steel Cabinet Co.....218-19
McDougall Co. 220-21
Murphy Door Bed Co.....442-44
Wasmuth-Endicott Co.....222-23
"White" Door Bed Co.....448-51
Chemical (See Chemical Toilets.)
Water
Crane Co.....338-39
Trenton Potteries Co..... 340

CLOTH
Blue or Brown Print—Tracing
Dietzgen, Eugene, Co..... 480
New York Blue Print Paper Co.478-79
Wire (See Wire Cloth)

CLOTHES HANGERS
Knape & Vogt Mfg. Co. 252-53

COAL
Chutes (See Chutes—Coal—Cellar Window)
Ranges (See Ranges—Coal)

COLORS—Mortar, Cement and Stucco
Cabot, Samuel, Inc..... 107
Clinton, Metallic Paint Co..60 a-b-c-d
Williams, C. V.....61-63

COLUMNS
Basement
Donley Bros. Co..... 277
Metal—Porch, Pergola, Etc.
Union Metal Manufacturing Co.216-17

COLUMNS, COLONNADES—Wood
Curtis Companies Service Bureau 190-91
Farley & Loetscher Manufacturing Co. 192-93
Hurd Lumber & Woodwork Co.194-95
Jones, Fred G., & Co..... 197
Morgan Woodwork Organization 198-204
Roberts Sash & Door Co..... 206-07
Watsontown Door & Sash Co..210-11
Wilbur Lumber Co..... 212

COMMON BRICK
Common Brick Mfr's Ass'n..... 38

COMPOSITION FLOORING
Magnesite Products Co. 84
Muller, Franklyn R., Inc..... 85

CONCRETE BLOCK—Its Uses
Concrete Block Manufacturers ...70-75

CONCRETE BLOCK MACHINERY
Anchor Concrete Machinery Co.... 76

CONCRETE BRICK—Its Uses
Concrete Block Manufacturers...70-75

CONCRETE BRICK MACHINERY
Anchor Concrete Machinery Co... 76

CONCRETE CARTS
Sterling Wheelbarrow Co..... 493

CONCRETE INSERTS
Sterling Foundry Co. 286

CONCRETE MIXERS
Jaeger Machine Co. 484
Koehring Co. 485
Kwik-Mix Concrete Mixer Co..... 486
Smith, T. L., Co..... 487

CONCRETE TILE—Its Uses
Concrete Block Manufacturers...70-75
CONCRETE TILE MACHINERY
Anchor Concrete Machinery Co.... 76
CONDUCTORS—Branch—Electric
General Electric Co.....304-23
CONDUCTOR PIPE
Hungerford, U. T., Brass & Copper Co. 294
Wheeling Corrugating Co..... 163
CONDUIT AND OUTLETS—Electric
General Electric Co.....304-23
CONTROLLERS
Damper
(See Regulators—Damper)
Motor—Electric
General Electric Co.....304-23
Temperature
Minneapolis Heat Regulator Co..404-05
Thrush, H. A., & Co..... 402
COPPER CONDUCTOR PIPE, GUTTERS, LEADERS
Hungerford, U. T., Brass & Copper Co. 294
CORD—Sash, Shade
Samson Cordage Works 274
CORK
Flooring
(See Tile—Cork Composition)
Insulation
(See Insulation and Insulating Materials)
CORKBOARD
Armstrong Cork & Insulation Co. 106
CORNER BEADS—Plaster
Sykes Metal Lath Co..... 92
Truscon Steel Co. 242-43
Wheeling Corrugating Co. 93
Youngstown Pressed Steel Co..286 a
COVERINGS—Boiler, Furnace, Pipe
Doyle, J. W., Co..... 382
Sall Mountain Co. 136
United States Mineral Wool Co... 116
COVERS—Radiator
(See Radiator Covers)
COW STALLS
Hunt-Helm-Ferris & Co., Inc...272-73
CRUSHED LIMESTONE
Limestone Products Corp. of America 99
CUPBOARDS—Wood
(See Cabinet Work)
CURB BARS—Driveway
Truscon Steel Co. 242-43
CUT-OUTS—Electric
General Electric Co.....304-23
CYPRESS—Lumber
Gulf Red Cypress Co.....172
Southern Cypress Mfrs. Ass'n..170-171

D

DAMPERS—Fireplace
Colonial Fireplace Co..... 275
Covert, H. W., Co..... 276
Donley Bros. Co..... 277
Jackson, Edwin A., & Bro., Inc.... 278
Majestic Co. 284-85
Peerless Mfg. Co., Inc. 279
Sykes Metal Lath Co..... 92
DAMPROOFING
(See Waterproofing)
DISAPPEARING BEDS
American Bed Co. 445
Concealed Bed Corp. 440-41
Holmes Disappearing Bed Co...440-41
Murphy Door Bed Co.....442-44
Roll-A-Way Bed Corp. 446-47
"White" Door Bed Co.....448-51
DISAPPEARING STAIRWAYS
Bessler Disappearing Stairway Co. 214
Farley & Loetscher Mfg. Co. 215
DOORS
Ash—Pit or Cleanout
Covert, H. W., Co..... 276
Donley Bros. Co. 277
Gabriel Steel Co.....282-83
Majestic Co. 284-85
Peerless Mfg. Co..... 279
Sterling Foundry Co..... 286
Stover Mfg. & Engine Co..... 280
Youngstown Pressed Steel Co.....286 a
Electrically Operated—Garage
Electric Door Corp..... 270
Entrance—Wood (See Millwork)
Frames (See Frames—Door—Wood)
Garage —Wood (See Millwork)
Garage—Wood Operators
(See Operators)
DOOR—Handles—Entrance
Penn Hardware Co.....256-57
Sharon Hardware Co..... 268
Stanley Works 261
Hangers (See Hangers—Door)
Holders (See Holders—Door)
Screens—Metal—Wood
Baker, W. J., Co., Inc. 292
Higgin Mfg. Co. 293
Standard Steel
Truscon Steel Co. 242-43
Veneered—Flush and Paneled
Curtis Companies Service Bureau 190-91
Farley & Loetscher Mfg. Co.....192-93
Hurd Lumber & Woodwork Co..194-95
Jones, Fred G., & Co..... 197
Morgan Woodwork Organization 198-204
Roberts Sash & Door Co.....206-07
Roddis Lumber & Veneer Co...208-09
Watsontown Door & Sash Co...210-11
Wheeler—Osgood Co. .....212 a, b
Wilbur Lumber Co..... 212
DRAFTING ROOM EQUIPMENT
Dietzgen, Eugene Co. 480
New York Blue Print Paper Co..478-79
DRAINERS—Cellar
Penberthy Injector Co. 333
DRAWING MATERIALS—Boards—Instruments—Paper
Dietzgen, Eugene, Co. 480
New York Blue Print Paper Co..478-79
DRESSERS—KITCHEN
(See Kitchen Cabinets)
DRESSING CABINETS
"White" Door Bed Co.....448-51
DUMBWAITERS—Hand
Sedgwick Machine Works..... 226
DUMP—Ash—Fireplace
Colonial Fireplace Co..... 275
Covert, H. W., Co..... 276
Donley Bros Co. 277
Gabriel Steel Co. 282-83
Jackson Edwin A., & Bro., Inc.....278
Majestic Co. 284-85
Peerless Mfg. Co., Inc. 279
Sykes Metal Lath Co. 92
Youngstown Pressed Steel Co... 286 a

E

EAVESTROUGH
Hungerford, U. T., Brass & Copper Co. 294
Wheeling Corrugating Co.....93-163
EJECTORS
Automatic Cellar Draining
Penberthy Injector Co. 33
ELECTRIC—DOOR OPERATOR
Electric Door Corp. 270
Lighting Plants—Private
Kewanee Private Utilities Co..... 328
Wiring
General Information 300-03
Wiring and Devices
Complete Specifications for Residential Work
General Electric Co.....304-23
ELECTRICAL REFRIGERATION
Delco-Light Co. 472
Kelvinator Corp. 473
ELEVATORS—Automatic Brake
Invalid
Sedgwick Machine Works..... 226
ENAMEL
Breinig Bros., Inc..... 457
Johnson, S. C., & Son.....458-59
Moore, Benjamin, & Co.....460-61
Valentine & Co.....462-65
ENCLOSURES—RADIATOR
Columbia Metal Box Co..... 346
Tuttle & Bailey Mfg. Co..... 381
ENTRANCES—WOOD
See Millwork
ENTRANCE GATES—Wrought Iron
Standard Iron & Wire Works... 296
EXPANDED METAL LATH
Associated Metal Lath Mfrs.....89-91
Sykes Metal Lath Co..... 92
Wheeling Corrugating Co..... 93

F

FACE OR FRONT BRICK
Alliance Brick Co. .....46 a-d
American Face Brick Association.39-41
Belden Brick Co. 42-43
Canton Brick & Fireproofing Co..44-45
Claycraft Mining & Brick Co..... 46
Conkey, H. D., & Co..... 47
Ironclay Brick Co. 50
McArthur Brick Co. 48-49
Metropolitan Paving Brick Co....52-53
Penn Brick Corp. 51
Sterling Brick Co. 54
Valley View Brick Co..... 55
Western Brick Co. 56
Hollow
Hoosier Building Tile & Silo Co..57-60

FACES
Register—Cold Air
Hart & Cooley Co., Inc.....374-77
Mueller, L. J., Furnace Co..... 380
Rock Island Register Co.....378-79
Tuttle & Bailey Mfg. Co..... 381

FANS—VENTILATING
American Blower Co. 406
Buffalo Forge Co. 407

FASTENERS
Conductor Pipe and Gutters
Hungerford, U. T., Brass & Copper Co. 294
Wheeling Corrugating Co. 163

FAUCETS
Chicago Faucet Co. 342
Mueller Co. 343

FEED CARRIERS
Hunt-Helm-Ferris & Co., Inc. ..272-73

FELT INSULATION—Sound Deadening
See Insulation—House

FENCING
Wire
Wickwire Spencer Steel Co..... 295
Wrought Iron
Standard Iron & Wire Works..... 296

FENDERS—Fireplace
See Fireplace Equipment

FILLERS—Wood
Breinig Bros., Inc. 457
Johnson, S. C., & Son..... 458-59
Moore, Benjamin, & Co.....460-61
Valentine & Co. 462-65

FIR GUTTERS
Long, E. M., & Sons 187

FIRE ALARM SYSTEMS—Electric
General Electric Co. 304-23

FIRE INSURANCE
Hartford Fire Insurance Co. ..... Inside Back Cover

FIREPLACE OR MANTEL BRICK
See Face Brick

FIREPLACE EQUIPMENT OR ACCESSORIES
Colonial Fireplace Co..... 275
Covert, H. W., Co..... 276
Donley Bros. Co. 277
Gabriel Steel Co. 282-83
Jackson, Edwin A., & Bro., Inc... 278
Majestic Co. 284-85
Peerless Mfg. Co., Inc..... 279
Stover Mfg. & Engine Co..... 280
Sykes Metal Lath Co. 92
Youngstown Pressed Steel Co.....286 a

FIXTURES—Garment—Clothes—Closet
Knape & Vogt Mfg. Co. 252-53
Lighting—Interior
Herwig Company 466
Welsbach Company 468
Lighting—Exterior
Herwig Company 466
Standard Iron & Wire Works.... 467

FLAGGING—Slate
Emack, John D., Co. 132-33

FLAT WALL FINISH
See Paint

FLOOR—Drains
Penberthy Injector Co. 33

FLOOR FINISHES—Wood
See Varnish—Polish, Liquid or Wax

FLOOR SURFACING MACHINES
American Floor Surfacing Co..... 488
Electric Rotary Machine Co..... 489
Lincoln-Schlueter Machinery Co... 490

FLOOR WAXERS
American Floor Surfacing Co..... 488
Electric Rotary Machine Co..... 489
Lincoln—Schlueter Machinery Co.. 490

FLOORING
Beech—Birch—Maple
See Beech—Birch—Maple
Birch
Northern Hemlock & Hardwood Mfrs. Assn. & Rotary Birch Club 167
Composition
See Composition—Flooring
Cork
See Tile—Cork
Cork Composition
See Tile Board—Fibre
Maple
See Maple Flooring
Oak
See Oak Flooring
Pine
See Pine
Rubber Tile
See Rubber Tile

FLUE—DAMPERS
See Dampers

FLUSH PLATES AND SWITCHES—Electric
General Electric Co. 304-23

FLY SCREENS
See Screens

FRAMES—Wood—Door and Window
Andersen Lumber Co. 188-89
See also Pages 190-212

FUEL LIFTS
Sedgwick Machine Works 226

FURNACE INSULATION
Doyle, J. W., Co. 382
Sall-Mountain Co. 156
United States Mineral Wool Co... 116

FURNACES—Warm Air—Standard Code
National Warm Air Heating and Ventilating Ass'n 353-55
Warm Air
Andes Range and Furnace Corp..356-57
Cole Mfg. Co. 358
Co-operative Foundry Co..... 359
Hall-Neal Furnace Co..... 360
Henry Furnace & Foundry Co..... 361
Hess Warming & Ventilating Co... 362
Holland Furnace Co. 363
Mueller, L. J., Furnace Co..... 364
Nugent's, Thomas, Sons 365
Oakland Foundry Co. 366
Richardson & Boynton Co.....367-69
Schwab, R. J., & Sons, Co.....370-71
Sterling Range & Furnace Corp..436-37
Thatcher Company 372
Utica Heater Co. 373
Warm Air—Cabinet Type—Parlor
American Radiator Co. 383
Co-operative Foundry Co. 384
Estate Stove Co. 385
Mueller, L. J., Furnace Co. 386
Warm Air—Pipeless
Andes Range & Furnace Corp....356-57
Co-operative Foundry Co..... 359
Henry Furnace & Foundry Co..... 361
Hess Warming & Ventilating Co... 362
Mueller, L. J., Furnace Co..... 364
Nugent's, Thomas, Sons 365
Oakland Foundry Co. 366
Richardson & Boynton Co.....367-69
Sterling Range & Furnace Corp..436-37
Thatcher Company 372
Utica Heater Co. 373

FURNITURE—Beds
See Beds

FURRING AND STUDDING—Metal
Berger Mfg. Co. 80-81
Gabriel Steel Co. 282-83
Truscon Steel Co. 242-43
Youngstown Pressed Steel Co.....286 a

FUSES—Electric
General Electric Co. 304-23

G

GARAGE DOOR—HARDWARE
See Hardware—Garage Door

GARAGE DOOR—LOCK
Lurie Products 271
Operators
See Hardware—Garage Door
Sliding or Swinging—Electric
Electric Door Corp..... 270

GARAGE HEATERS
See Heaters

GARBAGE BURNERS
Goder Incinerator Corp. 297
Kerner Incinerator Co. 298-99
Burners and Water Heater Combination
Mueller, L. J., Furnace Co..... 364

GARBAGE RECEIVERS
See Receivers

GARDEN AND LAWN LANDSCAPE
Greening Landscape Co.....474-77

GARMENT CARRIERS
Knape and Vogt Mfg. Co.....252-53

GAS—ITS USES
American Gas Association.....410-13
Burners
Cleveland Gas Burner and Appliance Co. 414-15
Producers
American Heating & Lighting Co. 409
Ranges
See Ranges
Water Heaters
See Water Heaters

GASOLINE SHOVELS
Koehring Co. 494

GATES
Wire
Wickwire Spencer Steel Co..... 295
Wrought Iron
Standard Iron & Wire Works.... 296

GLASS—WINDOW
American Window Glass Co. ....286 B

GLAZED TILE—Hollow
Hoosier Building Tile & Silo Co. 64-65
National Fireproofing Co.....68-69

GRATES—FIREPLACE
See Fireplace Equipment

GRILLES AND SCREENS
Metal—Ventilating
Hart & Cooley Co., Inc. 374-77
Mueller, L. J., Furnace Co..... 380
Rock Island Register Co.....378-79
Tuttle & Bailey Mfg. Co..... 381

GRILLES AND GUARDS—Window Iron
Standard Iron & Wire Works.... 296

GUTTERS—Roof—Metal
Hungerford, U. T., Brass & Copper Co. 294
Wheeling Corrugating Co..... 163
Wood—Fir
Long, E. M., & Sons..... 187

GYPSUM
Blocks
See Blocks
Plaster Board
See Plaster Board
Plasters
See Plasters

GYPSUM—(Cont.)
Roof and Wall Insulation
See Insulation—House
Wall Board
See Wall Board

H

HANDLES—Door
See Hardware

HANGERS
Door—Garage
Allith-Prouty Co. 262-63
Hunt-Helm-Ferris & Co., Inc....264-65
McKinney Mfg. Co. 260
Myers, F. E., & Bro. Co.....330-31
Richards-Wilcox Mfg. Co.....266-67
Sharon Hardware Mfg. Co..... 268
Stanley Works 269
Garment
Knape & Vogt Co. 252-53
Gutter
Hungerford, U. T., Brass & Copper Co. 294
Wheeling Corrugating Co..... 163
Radiator
Healy-Ruff Co. 408

HARD WALL PLASTER
See Plaster—Hardwall

HARDWARE
Butts
See Hinges
Builders
Bommer Spring Hinge Co.....258-59
McKinney Manufacturing Co. 260
Penn Hardware Co. 256-57
Sharon Hardware Mfg. Co..... 268
Stanley Works 261
Casement Window—Adjusters and Operators
Casement Hardware Co..... 245
Hoffman, Andrew, Mfg. Co.....234-36
Monarch Metal Products Co..... 246
Richards-Wilcox Mfg. Co. 247
Whitney, Vincent, Co. 248-49
Wilkins, George Lester..... 250
Casement Window—Sliding—Folding
Hoffman, Andrew, Mfg. Co.....234-36
Richards-Wilcox Mfg. Co..... 247
Whitney, Vincent, Co. 248-49
Casement Window—Stays
Casement Hardware Co. 245
Monarch Metal Products Co..... 246
Colonial—Hand Forged
Standard Iron & Wire Works..... 466
Finish—Door—Trim
Bommer Spring Hinge Co.....258-59
Penn Hardware Co. 256-57
Stanley Works 261
Garage Door
Allith-Prouty Co. 262-63
Hunt-Helm-Ferris & Co., Inc....264-65
McKinney Mfg. Co. 260
Myers, F. E., & Bro. Co.....330-31
Richards-Wilcox Mfg. Co.....266-67
Sharon Hardware Mfg. Co..... 268
Stanley Works 269

HARDWARE—(Cont.)
Garage Door Lock
Lurie Products 271
Garment Carriers and Closet Fixtures
Knape & Vogt Mfg. Co.....252-53
Sash Cord
Samson Cordage Works..... 274
Window
Casement Hardware Co..... 245
Hoffman, Andrew, Mfg. Co.....234-36
Monarch Metal Products Co..... 246
Richards-Wilcox Mfg. Co. 247
Whitney, Vincent, Co. 248-49
Wilkins, George Lester 250

HARDWALL PLASTER
See Plaster—Hardwall

HARDWOOD
Flooring
Beech—Birch—Maple
Maple Flooring Mfrs. Ass'n 180-81
Birch
Northern Hemlock & Hardwood Mfg. Assn. & Rotary Birch Club 167
Oak
Bruce, E. L., Co. 183
Crooks-Dittmar Co. 184-85
Oak Flooring Bureau 182
Ritter, W. M., Lumber Co.....186

HEAT REGULATORS
Minneapolis Heat Regulator Co..404-05
Thrush, H. A., & Co..... 402

HEATERS
Air—Warm Air Furnaces
Andes Range & Furnace Corp..356-57
Cole Mfg. Co. 358
Co-operative Foundry Co..... 359
Hall-Neal Furnace Co..... 360
Henry Furnace & Foundry Co..... 361
Hess Warming & Ventilating Co.. 362
Holland Furnace Co. 363
Mueller, L. J., Furnace Co..... 364
Nugent's, Thomas, Sons 365
Oakland Foundry Co. 366
Richardson & Boynton Co..... 367-69
Schwab, R. J., & Sons Co.....370-71
Sterling Range & Furnace Corp..436-37
Thatcher Company 372
Utica Heater Co. 373
Air—Warm Air—Parlor Cabinet Type
American Radiator Co. 383
Co-operative Foundry Co..... 384
Estate Stove Co. 385
Mueller, L. J., Furnace Co..... 386
Sterling Range & Furnace Corp..436-37
Electric
General Electric Co. 304-23
Garage
Hot Water—Complete Units
Richardson & Boynton Co.....367-69
Thatcher Co. 398-99
Gas
Welsbach Co. 439

HEATERS—(Cont.)

Laundry

Burnham Boiler Corp. 387
Oakland Foundry Co. 366
Richardson & Boynton Co..... 400
Thatcher Company 398-99

Oil

Cole Mfg. Co. 358
Oliver Oil Burner Corp. 403

Water—Coal

Burnham Boiler Corp. 387
Mueller, L. J., Furnace Co..... 364
Oakland Foundry Co..... 366
Richardson & Boynton Co..... 400
Thatcher Co. 438

Water—Electric

Dahlquist Mfg. Co. 418
General Electric Co. 304-23

Water—Gas

American Heating & Lighting Co.. 416
Crane Co. 417
Dahlquist Mfg. Co. 418
Everhot Heater Co. 419
Holyoke Heater Co. 420
Hot Stream Heater Co. 421
Pittsburgh Water Heater Co..... 422
Welsbach Co. 423
Wood, John, Mfg. Co.....424-25

Water—Gas—Range Boiler Combination

Crane Co. 417
Pittsburgh Water Heater Co..... 422
Wood, John, Mfg. Co. 424-25

Water—Indirect

Hot Stream Heater Co. 421
Thermal Appliance Co. 401
Thrush, H. A., & Co..... 402

Water—Kerosene

Dahlquist Mfg. Co. 418
Holyoke Heater Co. 420
Hot Stream Heater Co..... 421

HEATING CODE

Standard Warm Air

National Warm Air Heating & Ventilating Ass'n 353-55

Systems

Hot Water, Steam and Vapor
Standard Engineering & Mfg. Co. 394-95

Garage

See Heaters—Garage

Hot Water Pressure—Forced Circulation

Thermal Appliance Co. 401
Thrush, H. A., & Co..... 402

Warm Air

See Furnaces—Warm Air.

HEATING AND VENTILATING APPARATUS AND EQUIPMENT

Boilers

See Boilers—Hot Water and Steam

Fans

See Fans

Furnaces—Warm Air

See Furnaces

Heaters—Garage

See Heaters—Garage

Mushroom Ventilators

See Ventilators

Radiator Covers

See Radiator Covers

Radiator Hangers

See Radiator Hangers

Radiators

See Radiators

Regulators—Temperature

See Temperature Regulators

Registers—Floor and Wall

See Registers

Thermostats

See Regulators—Temperature

HEMLOCK

Northern Hemlock Mfrs. of Michigan and Wisconsin..... 173

HINGES

Butt—Anti-Friction or Ball Bearing

McKinney Mfg. Co. 260
Stanley Works 261

Butt—Plain and Ornamental

McKinney Mfg. Co. 260
Sharon Hardware Co. 268
Stanley Works 261

Butt—Double Acting

Bommer Spring Hinge Co.....258-59

Garage Door

Hunt-Helm-Ferris & Co., Inc....264-65
McKinney Mfg. Co. 260
Penn Hardware Co. 256-57
Richards-Wilcox Mfg. Co.....266-67
Sharon Hardware Mfg. Co..... 268
Stanley Works .....261, also 269

Hand Forged—Colonial

Standard Iron & Wire Works..... 467

Spring—Butt

Bommer Spring Hinge Co.....258-59

Pivot—Ball Bearing

Bommer Spring Hinge Co.....258-59

Spring Pivot—Floor

Bommer Spring Hinge Co.....258-59

HOISTS—Ash and Fuel—Hand

Sedgwick Machine Works..... 226

HOLDERS—Door

Bommer Spring Hinge Co. 258-59
McKinney Mfg. Co. 260
Penn Hardware Co. 256-57
Richards-Wilcox Co. 266-67
Sharon Hardware Mfg. Co. 268
Stanley Works 261

HOLLOW BLOCK OR TILE

Brick

See Brick, Hollow

Cinder Concrete

See Cinder Concrete

Clay

See Tile—Hollow

Concrete

See Concrete Block

Gypsum

See Blocks—Gypsum

HOT WATER

Boilers

See Boilers

Heaters

See Heaters—Water

Range Boilers

See Boilers—Range

HOUSE INSULATION—Floor, Wall—Roof

See Insulation—House

HYDRATED LIME

Kelley Island Lime & Transport Co. 104-05
Ohio Hydrate & Supply Co. 100-01
United States Gypsum Co. 97
Woodville Lime Products Co....102-03

I

ICE BOXES

See Refrigerators

INCANDESCENT LAMPS

General Electric Co.....304-23

INCINERATORS

Goder Incinerator Corp..... 297
Kerner Incinerator Co.....298-99

INSERTS—CONCRETE

Sterling Foundry Co..... 286

INSULATING MATERIALS

Block

See Concrete Block and Hollow Tile

Cement

See Cement

Cork

See Cork Board

Gypsum

See Block—Gypsum and Insulation —House

Metal Lath and Insulation Combination

See Metal Lath

Mineral Wool

See Mineral Wool

Paper

See Paper—Building

Wood and Cane Fibre

See Insulation—House

Wall Board

See Wall Board

Wood Lath and Insulation Combination

(See Wood Lath)

INSULATION
Boiler, Furnace and Pipe
Doyle, J. W., Co. 382
Sall Mountain Co. 156
United States Mineral Wool Co... 116
House, for Floors, Walls and Ceiling
American Gypsum Co. 118-19
Armstrong Cork and Insulation Co. 106
Cabot, Samuel, Inc. 107
Celotex Co. 108-11
Sall Mountain Company 156
United States Gypsum Co. 117
United States Mineral Wool Co... 116
Universal Gypsum Co. 115
Wood Conversion Co. 112-14

INSURANCE—Every Form Except Life
Hartford Fire Insurance Co. ..... Inside Back Cover

INTAKES—FRESH AIR
Hart & Cooley Co., Inc. 374-77
Mueller, L. J., Furnace Co. 380
Rock Island Register Co. 378-79
Tuttle & Bailey Mfg. Co. 381

INTERIOR TRIM
See Trim—Wood and Millwork

IRON BALCONIES AND RAILINGS
Standard Iron & Wire Works.... 296

IRONING BOARDS—Built-In
Bertelsen Adjustable Grille Co.... 196
Majestic Steel Cabinet Co. 218-19
Murphy Door Bed Co. 442-44
Wasmuth-Endicott Co. 222-23
"White" Door Bed Co. 448-51
(See also pages) 190-212

J

JET GAS BURNER
Cleveland Gas Burner & Appliance Co. 414-15

JOISTS—Pressed Steel
Berger Manufacturing Co. 80-81
Gabriel Steel Co. 282-83
Truscon Steel Co. 242-43
Youngstown Pressed Steel Co... 286 a

K

KEENE'S CEMENT (See Plasters)

KITCHEN-CABINET & GAS RANGE COMBINATION (See Ranges)
Cabinet & Refrigerator Combination (See Refrigerators)
Cabinets—Units—Steel
Majestic Steel Cabinet Co. 218-19
Murphy Door Bed Co. 442-44
"White" Door Bed Co. 448-51
Cabinets—Units—Wood
McDougall Co. 220-21
Wasmuth-Endicott Co. 22-23
"White" Door Bed Co. 448-51
Ranges (See Ranges—Cooking)

L

LAMP STANDARDS & BRACKETS
Herwig Company 466
Standard Iron & Wire Works.... 467

LAMPS—Incandescent
General Electric Co. 304-23

LANTERNS, IRON COLONIAL, HAND FORGED
Herwig Company 466
Standard Iron & Wire Works.... 467

LANDSCAPE—ARCHITECTURE & GARDENING
Greening Landscape Co. 474-77

LATCHES
Door
McKinney Manufacturing Co. 260
Penn Hardware Co. 256-57
Sharon Hardware Co. 268
Stanley Works 261
Door—Colonial Hand Forged
Standard Iron & Wire Works.... 467

LATH—METAL EXPANDED
Associated Metal Lath Manufacturers 89-91
Sykes Metal Lath Co. 92
Wheeling Corrugating Co. 93
Metal & Insulating Combination
Wickwire-Spencer Steel Co. 94
Wire
Wickwire, Spencer, Steel Co. 94
Wood
Southern Cypress Manufacturers' Assn. 170-71
Wood & Insulation Combination
Bishopric Mfg. Co. 497-98
Flint-Rock Stucco Co. 98

LAUNDRY
Heaters and Stoves
Burnham Boiler Corp. 387
Oakland Foundry Co. 366
Richardson & Boynton Co. 400
Thatcher Co. 398-438
Tubs—Trays Porcelain
Crane Co. ..... 338 -39
Trenton Potteries Co. 340
Tubs—Trays—Soapstone
Alberene Stone Co. 344-45

LAVATORIES—Porcelain or Vitreous China
Crane Co. 338-39
Trenton Potteries Co. 340

LEADERS—Copper
Hungerford U. T. Brass & Copper Co. 294

LETTER BOXES—Built In
Penn-Greg Manufacturing Co. 251

LEVELS—Contractors and Surveyors
Dietzgen, Eugene Company 480
New York Blue Print Paper Co.. 478-79

LIFTS FUEL—Invalid and Trunk
Sedgwick Machine Works 226

LIGHTING FIXTURES—Interior
Herwig Company 466
Welsbach Company 468
Fixtures—Exterior
Herwig Co. 466
Standard Iron & Wire Works 467

LIGHTING PLANTS—Electric—Private
Kewanee Private Utilities Co. 328

LIME—Hydrated
Kelley Island Lime & Transport Co. 104-05
Ohio Hydrate & Supply Co. 100-01
United States Gypsum Co. 97
Woodville Lime Products Co... 102-03

LIME—Hydrated
Lump
Kelly Island Lime & Transport Co. 104-05

LIMESTONE—Crushed and Pulverized
Limestone Products Corp. of America 99

LININGS—House (See Insulation House)
Paper (See Paper—Building)

LINEN CLOSETS (See Millwork)

LINTELS—Reinforced Cinder Concrete
Straub Cincrete Corp. 77-79
Standard Steel
Truscon Steel Co. 242-43

LITTER CARRIERS
Hunt-Helm-Ferris & Co. Inc. 272-73

LOCKS
Door—Trim
Penn Hardware Co. 256-57
Stanley Works 261
Garage Doors
Lurie Products 271
Sliding Door—Garage (See Garage Hardware)

LUMBER—Asbestos
American Insulation Co. 140-41
Asbestos Shingle, Slate & Sheathing Co. 144

Beech—Birch—Maple
Maple Flooring Manufacturers Ass'n 180-81
Birch
Northern Hemlock & Hardwood Manufacturers Ass'n & Rotary Birch Club 167
Cedar Red
Chickamauga Cedar Co. 224
Lane, Arthur E., Lumber Corp. 225
Red Cedar Lumber Manufacturers Ass'n 168
Seattle Cedar Lumber Manufacturing Co. 225
Cypress
Gulf Red Cypress Co. 172
Southern Cypress Manufacturers Ass'n 170-71

LUMBER—(Cont.)
Fir Gutters
Long, E. M., & Sons..... 187
Hemlock
Northern Hemlock Manufacturers of Michigan and Wisconsin..... 173
Oak
Oak Flooring Bureau 182
Pine
California White & Sugar Pine Manufacturers Ass'n 164-66
Southern Pine Sales Corp. 176-77
Western Pine Manufacturers Ass'n 174
Redwood
Pacific Lumber Co..... 175
Pressed Steel
Berger Manufacturing Co.....80-81
Gabriel Steel Co.....282-83
Truscon Steel Co.....242-43
Youngstown Pressed Steel Co...286 a

M

MACHINERY—Concrete Block-Brick & Tile
Anchor Concrete Machinery Co. .. 76
MAGNESIA (See Coverings)
MAGNESITE (See Stucco)
MAIL BOXES—Built-In
Penn—Greg Manufacturing Co. .. 251
MANTELS—Brick (See Face Brick)
Wood
Jackson, Edwin, A., & Bro., Inc.. 278
MAPLE FLOORING
Maple Flooring Manufacturers Ass'n 180-81
MASON'S LINE
Samson Cordage Works 274
MEDICINE CABINETS
(See Cabinets—Medicine)
METAL CEILINGS
Berger Mfg. Co. 80-81
Wheeling Corrugating Co. 93
METAL COLUMNS—Porch
Union Metal Mfg. Co. 216-17
METAL LATH—Expanded
Associated Metal Lath Manufacturers 89-91
Sykes Metal Lath Co. 92
Wheeling Corrugating Co. 93
Wire
Wickwire Spencer Steel Co. 94
METAL LATH—Insulation Combination
Wickwire Spencer Steel Co. 94
METAL LUMBER
Berger Mfg. Co. 80-81
Gabriel Steel Co. 282-83
Truscon Steel Co. 242-43
Youngstown Pressed Steel Co. .. 286 a
METAL WEATHERSTRIP
Chamberlin Metal Weather Strip Co., Inc. 288-89
Diamond Metal Weather Strip Co.. 287
Higgin Manufacturing Co. 290
Monarch Metal Products Co. ... 291
METER BOX—Steel
Donley Bros. Co. 277
METER SERVICE SWITCH—Electric
General Electric Co. 304-23
MILK & PACKAGE RECEIVERS
(See Receivers)
MILLWORK
Curtis Companies Service Bureau 190-91
Farley & Loetscher Mfg. Co. ..192-93
Hurd Lumber & Woodwork Co..194-95
Jones, Fred G., & Co..... 197
Morgan Woodwork Organization 198-204
Roberts Sash & Door Co. 206-07
Watsontown Door & Sash Co. 210-11
Wilbur Lumber Co. 212
MINERAL WOOL
Doyle, J. W., & Co. 382
United States Mineral Wool Co... 116
MIRRORS
Metal Frame Lavatory
Columbia Metal Box Co. 346
Hess Warming & Ventilating Co.. 347
Lawson, J. H., Co. 348
Majestic Steel Cabinet Co. 349
Murphy Door Bed Co. 442-44
Morton Mfg. Co. 350
Silvers Mfg. Co. 351
"White Steel" Sanitary Furiture Co. 352
"White" Door Bed Co.....448-51
MIXERS
Concrete
Jaeger Machine Co. 484
Koehring Co. 485
Kwik-Mix Concrete Mixer Co..... 486
Smith, T. L., Co. 487
MORTAR
Colors—Brick—Cement Stucco
Cabot, Samuel, Inc. 107
Clinton Metalic Paint Co.....60 A-D
Williams, C. K., & Co. 61-63
Hydrated Lime
Kelly Island Lime & Transport Co. 104-05
Ohio Hydrate & Supply Co....100-01
United States Gypsum Co..... 97
Woodville Lime Products Co...102-03
Portland Cement
Alpha Portland Cement Co..... 33
Manitowoc Portland Cement Co... 36
Nazareth Cement Co. 37
Sandusky Cement Co. 34-35
MOTORS—Electric
General Electric Co.....304-23
MOULDINGS—Wood
See Millwork
MUSHROOM VENTILATORS
See Ventilators, Mushroom

N

NAILS
Brass—Copper—Wire
Hungerford, U. T., Brass & Copper Co. 294
Wheeling Corrugating Co. 93
NURSERY & LANDSCAPE
Greening Landscape Co. 474-77

O

OAK FLOORING
Bruce, E. L., & Co. 183
Crooks-Dittmer Co. 184
Oak Flooring Bureau 182
Ritter, W. M., Lumber Co. 86
OIL
Burners
Cole Manufacturing Co..... 358
Oliver Oil Burner Corp 403
Stoves (See Stoves, Cooking)
OPERATORS
Casement Window
Casement Hardware Co. 245
Hoffman, Andrew, Mfg. Co. ...234-36
Monarch Metal Products Co. ... 246
Richards-Wilcox Mfg. Co. 247
Whitney, Vincent, Co.....248-49
Wilkins, George Lester 250
Door-Sliding or Swinging-Electric
Electric Door Corp 270
Doors—Garage
See Hardware—Garage Door
ORNAMENTAL IRON & WIRE
Standard Iron & Wire Works.. . 296
OUT DOOR LIGHTING FIXTURES
See Lighting Fixtures—Exterior
OUTLETS—Convenience
General Electric Co.....304-23

P

PACKAGE AND MILK RECEIVERS
(See Receivers)
PAINT
Enamel and Flat Wall Finish
Breinig Bros. Inc..... 457
Johnson, S. C., & Son.....458-59
Moore, Benjamin, & Co.....460-61
National Roofing Co..... 153
Texturing
Craftex Co.....452-53
Morene Products Co., Inc.....454-55
United States Gypsum Co..... 456
Water-Portland Cement
Craftex Co.....452-53
Morene Products Co., Inc.....454-55
Sandusky Cement Co.....34-35
Waterproofing
(See Waterproofing)
PANEL BOARDS
Electric
General Electric Co.....304-23

PAPER
Blue or Brown—Drawing—Tracing
Dietzgen, Eugene, Co..... 480
New York Blue Print Paper Co.478-79
Building
Beaver Products Co., Inc.....142-43
Bird & Son., Inc..... 146
Cabot, Samuel, Inc. 107
Flintkote Co.....135-37
Lehon Co.....148-49
Safepack Mills..... 155

PARTITIONS
Asbestos
American Insulation Co.....140-41
National Asbestos Shingle Corp...152
Cinder Concrete
Straub Cincrete Corp.....77-79
Gypsum Block
American Gypsum Co..... 118
Ebsary Gypsum Co..... 95
Rock Plaster Corp. 96
United States Gypsum Co..... 125
Universal Gypsum Co..... 126
Metal
Berger Mfg. Co.....80-81
Standard Iron & Wire Works..... 296
Tile—Hollow
Alliance Brick Co.....46 A-D
Conkey, H. D., & Co..... 47
Hollow Building Tile Assn.....66-67
Hoosier Building Tile & Silo Co.64-65
National Fireproofing Co.....68-69
Wall Board—(See Wallboard)

PERFORATED METAL GRILLES
Hart & Cooley Co., Inc.....374-76
Mueller, L. J., Furnace Co..... 380
Rock Island Register Co.....378-79
Tuttle & Bailey Mfg. Co..... 381

PERGOLAS—Pilasters
Metal
Union Metal Mfg. Co.....216-17
Wood
See Columns

PINE
California White & Sugar Pine Mfg. Ass'n.....164-66
Southern Pine Sales Corp.....176-77
Western Pine Manufacturers Ass'n.174

PIPE
Conductor
Hungerford, U. T. Brass & Copper Co. 294
Conductor—Steel
Wheeling Corrugating Co..... 93
Coverings
See Coverings—Boiler—Furnace—Pipe

PIPELESS FURNACES
See Furnaces—Warm Air

PLASTER BASE
See Metal Lath—Wood Lath—Plaster Board—Wall Board and Metal Lath Insulation—Combination

PLASTER BOARD
American Gypsum Co.....118-19
Beaver Products Co., Inc.....120-21
Ebsary Gypsum Co., Inc..... 95
Rock Plaster Corp..... 96
United States Gypsum Co..... 97
Universal Gypsum Co.....118-26

PLASTERING—Better—General Information.
National Council For Better Plastering 88

PLASTERS
Gypsum—Hardwall or Ready Mixed
American Gypsum Co.....118-19
Beaver Products Co., Inc.....120-21
Ebsary Gypsum Co., Inc..... 95
Rock Plaster Corp..... 96
United States Gypsum Co..... 97
Universal Gypsum Co.....118-26
Hydrated Lime
Kelley Island Lime & Transport Co. 104-05
Ohio Hydrate & Supply Co.....100-01
United States Gypsum Co..... 97
Woodville Lime Products Co...102-03
Keene's Cement
Beaver Products Co.....120-21
United States Gypsum Co..... 97
Portland Cement
Alpha Portland Cement Co..... 33
Manitowoc Portland Cement Co.. 36
Nazareth Cement Co..... 37
Sandusky Cement Co.....34-35
Wood—Fibered
See Plasters—Hardwall

PLASTIC PAINT
See Paint-Texturing

PLATE GLASS MIRRORS
See Mirrors

PLUGS
Floor Wall & Ceiling—Electric
General Electric Co.....304-23

PLUMBERS BRASS GOODS
Chicago Faucet Co..... 342
Mueller Co.....343

PLUMBING
Bathtubs—Lavatories—Porcelain or Vitreous China Shower Baths—Water Closets—Kitchen Sinks Porcelain Enameled.
Crane Co.....338-39
Trenton Potteries Co..... 340
Chemical Toilets
See Toilets—Chemical
Closet or Toilet Seats
Church, C. F., Mfg. Co..... 341
Drainers—Cellar
Penberthy Injector Co. 333
Faucets
Chicago Faucet Co..... 342
Mueller Co..... 343
Laundry Trays-Tubs
Poreclain
Crane Co.....338-39
Trenton Potteries Co..... 340

PLUMBING—(Cont.)
Soapstone
Alberene Stone Co.....344-45
Septic Tanks
See Tanks—Septic
Sewage—Disposal Systems
See Sewage Disposal Systems
Water Supply Systems
See Water Supply

POLISH—Floor—Liquid—Wax
Johnson, S. C., & Sons.....458-59

PORCH COLUMNS
Metal
Union Metal Manufacturing Co.216-17
Wood
See Columns Wood
Railings—Iron
Standard Iron & Wire Works.... 296

PORTABLE SAWS
Jaeger Portable Machinery Co.... 492
Onan, D. W., & Sons..... 491
Woodworker
Jaeger Portable Machinery Co.... 492

PORTLAND CEMENT
Alpha Portland Cement Co..... 33
Manitowoc Portland Cement Co.. 36
Nazareth Cement Co..... 37
Sandusky Cement Co.....34-35

POSTS—Clothes—Metal
Donley Bros. Co..... 277

PULLS—DOOR
See Hardware

PUMPS
Deep or Shallow Well
Crane Co..... 324
Flint & Walling Mfg. Co..... 325
Fort Wayne Engineering & Mfg. Co. 326
Kewanee Private Utilities Co..... 328
Monarch Engineering Co..... 329
Myers, F. C., & Bro. Co.....330-31
Vaile-Kimes Co..... 332

PUSH BUTTONS—ELECTRIC
General Electric Co.....304-23

Q

QUILT—DEADENING
Cabot, Samuel, Inc..... 107

R

RADIATOR COVERS—Enclosures
Columbia Metal Box Co..... 346
Tuttle & Bailey Mfg. Co..... 381

RADIATOR HANGERS OR BRACKETS
Healy-Ruff Co..... 408

RADIATORS—Hot Water—Steam
American Radiator Co.....388-89
Standard Engineering & Mfg. Co. 394-95

RAILINGS BALCONY ETC.—Metal
Standard Iron & Wire Works..... 296

RANGE BOILERS—Copper
Dahlquist Mfg. Co..... 418
Hungerford, U. T., Brass & Copper Co..... 294

RANGES
Coal
Cole Manufacturing Co..... 358
Co-operative Foundry Co..... 428
Oakland Foundry Co..... 366
Richardson & Boynton Co.....430-33
Sterling Range & Furnace Corp. 436-37
Thatcher Company..... 438
Gas
A. B. Stove Company.....426-27
Andes Range & Furnace Corp..356-57
Cole Mfg. Co.....358
Co-operative Foundry Co..... 428
Mascot Stove Mfg. Co..... 429
Oakland Foundry Co..... 366
Richardson & Boynton Co. ...430-33
Roberts & Mander Stove Co.....434-35
Sterling Range & Furnace Corp.436-37
Thatcher Company..... 438
Coal and Gas Combination
Co-operative Foundry Co..... 428
Richardson & Boynton Co. 430-33
Sterling Range & Furnace Corp.436-37
Thatcher Company..... 438
Kitchen—Cabinet Combination
Majestic Steel Cabinet Co.....218-19
Murphy Door Bed Co.....442-44
"White" Door Bed Co.....448-51

RECEIVADORS
Receivador Sales Co.....254-55

RECEIVERS
Garbage
Columbia Metal Box Co..... 346
Donley Bros. Co..... 277
Jackson, Edwin A., & Bro., Inc... 278
Majestic Company.....284-85
Peerless Mfg. Co., Inc..... 279
Milk-Bottle and Package
Donley Bros. Co..... 277
Jackson, Edwin A., & Bro., Inc... 278
Majestic Company.....284-85
Receivador Sales Co.....254-55

RECEPTICLES—Electric Floor Ceiling and Wall
General Electric Co.....304-23

RED CEDAR
See Cedar

REDWOOD-LUMBER
Pacific Lumber Co..... 175

REFRIGERATING MACHINES
Automatic Electric—Domestic
Delco Light Co..... 472
Kelvinator Co..... 473

REFRIGERATOR—Kitchen Cabinet Combination
Majestic Steel Cabinet Co.....218-19
McDougall Co.....220-21
Murphy Door Bed Co.....442-44
Wasmuth-Endicott Co. 222-23
"White" Door Bed Co.....448-51

REFRIGERATORS
Illinois Refrigerator Co. 469
McCray Refrigerator Sales Corp 470-71

REFUSE BURNERS
Goder Incinerator Corp. 297
Kerner Incinerator Co. 298-99

REGISTER FACES
See Grilles and Screens, Metal

REGISTERS—Heating and Ventilating
Hart & Cooley Co., Inc. 374-76
Mueller, L. J., Furnace Co. 380
Rock Island Register Co. 378-79
Tuttle & Bailey Mfg. Co. 381

REGULATORS
Dampers—Fireplace
Colonial Fireplace Co. 275
Covert, H. W., Co. 276
Donley Bros. Co. 277
Jackson, Edwin A., & Bro., Inc... 278
Majestic Co. 284-85
Peerless Mfg. Co., Inc. 279
Sykes Metal Lath Co. 92
Furnace
Hart & Cooley Co., Inc. 374-77
Oven—Heat
Co-operative Foundry Co. 428
Roberts & Manders Stove Co..434-35
Temperature
Minneapolis Heat Regulator Co..404-05
Thrush, H. A., & Co. 402

ROOF GUTTERS
See Gutters—Roof

ROOFING
Asbestos Shingles
American Insulation Co. 140-41
Asbestos Shingle Slate & Sheathing Co. 144
National Asbestos Shingle Corp. 152
Asphalt Shingles—Plain or Surfaced
Amalgamated Roofing Co. 138-39
Beaver Products Co., Inc. 142-43
Beckman-Dawson Roofing Co. 145
Bird & Son, Inc. 146
Flintkote Co. 135-37
Lehon Co. 148-49
Lockport Paper Co. 147
Logan-Long Co. 150-51
National Roofing Co. 153
Reynolds, H. M., Shingle Co. ... 154
Richardson Co. 499-500
Safepack Mills 155
Sall Mountain Co. 156
Asphalt Shingles—Copper Clad
Flintkote Co. 135-37
Roll—Prepared or Ready
Amalgamated Roofing Co. 138-39
Beaver Products Co., Inc. 142-43
Beckman-Dawson Roofing Co. 145
Bird & Son, Inc. 146
Flintkote Co. 135-37
Lehon Co. 148-49
Logan-Long Co. 150-51
National Roofing Co. 153
Reynolds, H. M., Shingles Co. ... 154
Richardson Company 499-500
Safepack Mills 155
Sall Mountain Co. 156

ROOFING—(Cont.)
Slate
Emack, John D., Co. 132-33
Shingles—Wood—Natural
Rite-Grade Shingle Ass'n 169
Southern Cypress Manufacturers Ass'n 170-71
Stained Shingles
Cabot, Samuel, Inc. 157
Creo-Dipt Co. .....156 A-B
Edgecumbe-Newham Co. 162
Lane, Arthur E., Lumber Corp ... 162
Mauk C. A., Lumber Co. .....162 A-B
Pacific Timber Co., ...158-59
Weatherbest Stained Shingle Co., Inc. 160-61
Tile
Ludowici-Celadon Co. 134

ROPE
Samson Cordage Works 274

RUBBER TILE FLOORING
Wright Rubber Products Co....178-79

RUBBISH
Incinerators
See Incinerators

S

SAFETY SWITCHES—Electric
General Electric Co. 304-23

SASH—BASEMENT WINDOW—Steel
See windows—Basement-Steel
Casement
See Window Casements
Cord
See Cord Sash
Locks
See Hardware

SASH OPERATING DEVICES
See Operators

SAW HORSE
Gabriel Steel Co. 282-83

SAWS—Portable
Jaeger Portable Machinery Co. .. 492
Onan, D. W., & Sons..... 491

SCAFFOLDING AND BRACKET
Ajax Building Bracket Co. 481
Elite Mfg. Co. 483
Gabriel Steel Co. 282-83

SCREENS—Fireplace
See Fireplace Equipment
Insect—Door—Window—Metal and Wood
Baker, W. J., Co., Inc. 292
Higgin Mfg. Co. 293
Wood—Door and Window
See Millwork
Ventilating
See Grilles & Screens

SCREEN CLOTH—Wire, Bronze, Copper
Hungerford, U. T., Brass and Copper Co. 294
Wickwire Spencer Steel Co. 295

SEATS—Toilet
Church, C. F., Mfg. Co..... 341

SEPTIC TANKS
Chemical Toilet Corp..... 334
Dail Steel Products Co. 335
Kaustine Co., Inc. 336
Western Metal Specialty Co. ... 337

SEWAGE DISPOSAL SYSTEMS
Chemical Toilet Corp..... 334
Dail Steel Products Co. 335
Kaustine Co., Inc. 336
Kewanee Private Utilities Co. ... 328
Western Metal Specialty Co. ... 337

SHEATHING
Asbestos
American Insulation Co. 140-41
Asbestos Shingle Slate & Sheathing Co. 144
National Asbestos Shingle Corp .. 152
Cork Board
Armstrong Cork & Insulation Co. ..106
Gypsum Board
American Gypsum Co.....118-19
Beaver Products Co., Inc. 120-21
United States Gypsum Co. 127
Universal Gypsum Co. 126
Lath and Insulation Combination
Bishopric Mfg. Co. 497-98
Flint Rock Stucco Co., Inc..... 98
Paper
See Paper—Building
Wire Lath and Insulation Combination
Wickwire Spencer Steel Co..... 94
Wood or Cane Fibre
See Wall Board

SHELLAC
Breinig Bros., Inc. 457
Johnson, S. C., & Sons.....458-59

SHIELDS—Radiator
See Radiator Covers

SHINGLE STAINS
See Stains—Shingle

SHINGLES—Asbestos
American Insulation Co.....140-41
Asbestos Shingle Slate & Sheathing Co. 144
National Asbestos Shingle Corp... 152
Asphalt—Plain or Surfaced
Amalgamated Roofing Co.....138-39
Beaver Products Co., Inc.....142-43
Beckman-Dawson Roofing Co. ... 145
Bird & Son, Inc. 146
Flintkote Co. 135-37
Lehon Co. 148-49
Lockport Paper Co..... 147
Logan-Long Co. 150-51
National Roofing Co. 153
Reyolds, H. M., Shingle Co..... 154
Richardson Co. 499-500
Safepack Mills 155
Sall Mountain Co. 156
Slate
Emack, John D., Co.....132-33
Metal
Wheeling Corrugating Co..... 93
Tile
Ludowici-Celadon Co. 134

SHINGLES—(Cont.)
Wood—Natural
Rite-Grade Shingle Association.... 169
Southern Cypress Manufacturers Ass'n 170-71
Wood—Stained
Cabot, Samuel, Inc. 157
Creo-Dipt Co. .....156 A-B
Edgecumbe-Newham Co. 162
Lane, Arthur E., Lumber Corp.... 162
Mauk, C. A., Lumber Co.....162 A-B
Pacific Timber Co.....158-59
Weatherbest Stained Shingle Co., Inc. 160-61

SHOVELS—Gasoline
Koehring Co. 494

SHOWER BATHS
Crane Co. 338-39
Trenton Potteries Co. 340

SHRUBBERY
Greening Landscape Co.....474-77

SIDEBOARDS—Wood
See Pages 190 to 212

SIDING—Asbestos
See Lumber—Asbestos
Cedar—Cypress—Pine—Red Wood, Etc.
See Cedar, Cypress, Pine, Redwood
Wood Fibre—Clap board
Pantasote Company, Inc. 122-23

SILOS—Glazed Tile
See Tile—Hollow

SINKS—Porcelain Enameled—Kitchen
Crane Co. 338-39
Trenton Potteries Co..... 340
Laundry Tray—Combination
Alberene Stone Co.....344-45
Crane Co. 338-39
Trenton Potteries Co..... 340
Soapstone
Alberene Stone Co. 344-45

SIZING
Breinig Bros., Inc. 457
Craftex Company 452-53
Johnson, S. C., & Son.....458-59
Moore, Benjamin, & Co.....460-61
Morene Products Co., Inc.....454-55

SLATE ROOFING
Emack, John D., Co.....132-33

SMOKE CHAMBERS—Fireplace
See Fireplace Equipment

SOAPSTONE
Alberene Stone Co.....344-45

SOCKETS—ELECTRIC
General Electric Co. 304-23

SOFTENERS—WATER
Crane Co. 324
Monarch Engineering Co..... 329
Vaile-Kimes Co. 332

SOUND DEADENING MATERIALS
Cinder Concrete—See Cinder Concrete
Cork—See Cork Board
Felt—See Insulation—House
Floor and Wall—See Insulation, House

SOUND DEADENING—(Cont.)
Mineral Wool—See Mineral Wool
Quilt—See Quilt
Wall Board—See Wall Board
Wood and Cane Fibre—
See Insulation, House

STANDARD CODE—Warm Air Heating and General Information 353-55

STAINS
Brick and Stucco
Cabot, Samuel, Inc. 107
Mortar—See Colors—Mortar
Shingle
Cabot, Samuel, Inc. 107
Creo-Dipt. Co. .....156 A-B
Edgecumbe-Newham Co., Ltd. ... 162
Lane, Arthur E., Lumber Corp..... 162
Mauk, C. A., Lumber Co.....162 A-B
Pacific Timber Co..... 158-59
Weatherbest Stained Shingle Co., Inc. 160-61
Wood
Breinig Bros., Inc. 457
Johnson, S. C., & Son.....458-59
Moore, Benjamin, & Co.....460-61
Valentine & Co. 462-65

STAIRS —Disappearing, Movable
Bessler Disappearing Stairway Co.. 214
Farley & Loetscher Mfg. Co..... 215
Wood
See Pages 190-212
Treads—Rubber Tile
Wright Rubber Products Co.....178-79

STALLS—Cow and Stanchions
Hunt-Helm-Ferris & Co., Inc....272-73

STANDARDS AND BRACKETS— Lamps
Herwig Company 466
Standard Iron & Wire Works...296-467

STAYS—Casement Window
See Casement Window Hardware

STEPPING STONES
Emack, John D., Co.....132-33

STOPS AND BUMPERS—Door
Bommer Spring Hinge Co..... 258-59

STOVES—Cooking
See Rangers and Heaters—
Laundry—Heaters
Burnham Boiler Corp. 387
Oakland Foundry Co. 366
Richardson & Boynton Co..... 400
Thatcher Company 398-438
Oil Burner and Heating
Cole Manufacturing Co..... 358
Oliver Oil Burner Corp..... 403

STUCCO
American Magnestone Corp..... 82
Bishopric Manufacturing Co.....497-98
Flint Rock Stucco Co..... 83
Magnesite Products Co. 84
Muller, Franklyn R., Inc. 85
Pyramid Company 86
United States Gypsum Co..... 87

STUCCO—(Cont.)
Base — See Metal Lath, and Insulation Combination, Plaster Board, Wood Lath and Insulation Combination, Cinder Concrete—Concrete Block and Hollow Tile
Colors—See Colors—Mortar
Dash—Limestone Products Corp. of America 99
Hydrated Lime
See Lime—Hydrated
Portland Cement
See Cement—Portland

STUDDING—METAL—
See Metal Lumber

SURVEYING INSTRUMENTS
Dietzgen, Eugene, Co. 480
New York Blue Print Paper Co..478-79

SWITCHES—Electric
General Electric Co.....304-23

T

TABLES—Drawing
Dietzgen, Eugene, Co. 480
New York Blue Print Paper Co..478-79
Dressing
"White" Door Bed Co.....448-51

TANKS—Copper-Range Boilers
Dahlquist Mfg. Co. 418
Hungerford, U. T., Brass & Copper Co. 294
Septic
Chemical Toilet Corp. 334
Dail Steel Products Co. 335
Kaustine Co., Inc..... 336
Western Metal Specialty Co..... 337

TAPES—STEEL—Contractor—Surveyor
Dietzgen, Eugene, & Co. 480
New York Blue Print Paper Co..478-79

TELEPHONE CABINETS—Built-In
Jones, Fred G., & Co..... 197
Majestic Steel Cabinet Co.....284-85
Phoenix Cabinet Co., Inc..... 205

TEMPERATURE REGULATORS— Thermostats
Minneapolis Heat Regulator Co..404-05
Thrush, H. A., & Co..... 402

TEXTURED WALL FINISH
Craftex Co. 452-53
Morene Products Co., Inc. 454-55
United States Gypsum Co..... 456

THRESHOLDS—Weatherstrip Combination
Chamberlin Metal Weather Strip Co., Inc. 288-89
Diamond Metal Weather Strip Co.. 287
Higgin Mfg. Co. 290
Monarch Metal Products Co..... 291

THROATS—Fireplace
See Dampers, Fireplace

TIES—Wall—Metal
Sykes Metal Lath Co..... 92
Wheeling Corrugating Co.....93-163
Youngstown Pressed Steel Co...286 A

TILE—Board—Fibre
Beaver Products Co.....120-21
Pantasote, Inc. 122-23
Plastergon Wall Board Co..... 124
Upson Company 128-31
Concrete
Concrete Block Manufacturers..70-75
Cork
Armstrong Cork & Insulation Co..106
Hollow-Clay—It's uses
Hollow Building Tile Ass'n.....66-67
Hollow-Clay
Alliance Brick Co.....46A-D
Conkey, H. D., & Co..... 47
Hoosier Building Tile & Silo Co..64-65
National Fireproofing Co.....68-69
Hollow-Glazed
Hoosier Building Tile & Silo Co.64-65
National Fireproofing Co. 68-69
Hollow-Gypsum—Partitions, Furring, etc.
American Gypsum Co..... 118
Beaver Products Co. 120-21
Ebsary Gypsum Co..... 95
Rock Plaster Corp..... 96
United States Gypsum Co..... 125
Universal Gypsum Co..... 126
Hollow or Solid Cinder Concrete
Straub Cincrete Corp. 77-79
Roofing
Ludowici-Celadon Co. 134
Rubber-Flooring
Wright Rubber Products Co....178-79

TIMBER—See Lumber

TOILET—SEATS
Church, C. F., Mfg. Co..... 341
Systems—Chemical
Chemical Toilet Corp..... 334
Dail Steel Products Co..... 335
Kaustine Co., Inc..... 336
Western Metal Specialty Co..... 337

TRACK—DOOR
See Hangers—Door

TREADS—RUBBER
Wright Rubber Products Co.....178-79

TRANSFORMERS—BELL RINGING
General Electric Co.....304-23

TRIM—WOOD
California White & Sugar Pine Mfrs. Assn. 164-66
Chickamauga Cedar Co..... 224
Gulf Red Cypress Co..... 172
Lane, Arthur E., Lumber Corp... 225
Maple Flooring Mfrs. Ass'n....180-81
Northern Hemlock & Hardwood Mfrs. Ass'n & Rotary Birch Club 167
Pacific Lumber Co. 175
Red Cedar Lumber Mfrs. Ass'n.. 168
Seattle Cedar Lumber Mfg. Co... 225
Southern Cypress Mfrs. Ass'n..170-71
Southern Pine Sales Corp.....176-77
Western Pine Mfrs. Ass'n..... 174
See Also Millwork Section....190-212

TUBS AND SINKS COMBINATION
Alberene Stone Co.....344-45
Crane Co. 338-39
Trenton Potteries Co..... 340

TUBS AND TRAYS—LAUNDRY
Alberene Stone Co.....344-45
Crane Co. 338-39
Trenton Potteries Co..... 340

TRACING PAPER
Dietzgen, Eugene, & Co..... 480
New York Blue Print Paper Co. 478-79

TREES
Greening Landscape Co.....474-77

TROLLEY SWIVEL HANGERS
See Hangers

TRUNK LIFTS
Sedgwick Machine Works..... 226

V

VARNISH—Floor—Interior—Exterior
Breinig Bros., Inc..... 457
Johnson, S. C., & Son.....458-59
Moore, Benjamin, & Co..... 461
National Roofing Co..... 153
Valentine and Company.....462-65

VENTILATING—KITCHEN
American Blower Co..... 406
Buffalo Forge Co..... 407
Windows
Allen Window Co. of America.... 213

VENTILATORS—MUSHROOM
Hart & Cooley Co., Inc.....374-76
Mueller, L. J., Furnace Co..... 380
Rock Island Register Co..... 378-79
Tuttle & Bailey Mfg. Co..... 381

W

WALL
Beds
American Bed Co..... 445
Concealed Bed Corp.....440-41
Holmes Disappearing Bed Co...440-41
Murphy Door Bed Co.....442-44
Roll-A-Way Bed Corp. 446-47
"White" Door Bed Co.....448-51
Board—Asbestos-Fibre Cane—Gypsum-Wood Fibre
American Gypsum Co.....118-19
Beaver Products Co., Inc.....120-21
Celotex Company 108-11
National Asbestos Shingle Corp.. 152
Pantasote Company, Inc.....122-23
Plastergon Wall Board Co..... 124
United States Gypsum Co..... 125
Universal Gypsum Co..... 126
Upson Company 128-131
Finishes—See Paint—Paint Texturing
See Lime—Hydrated
Plugs—Ceiling-Floor
General Electric Co.....304-23
Ties—Metal
Sykes Metal Lath Co..... 92
Wheeling Corrugating Co. 93-163
Youngstown Pressed Steel Co...286 A

WARM AIR—HEATING—Standard Code and General Information
National Warm Air Heating & Ventilating Ass'n 353-55
Furnaces
See Furnaces—Warm Air
Heaters
See Heaters—Warm Air

WARMERS—PLATE ELECTRIC
General Electric Co.....304-23

WATER
Bowls—Barn Equipment
Hunt-Helm-Ferris & Co., Inc...272-73
Closets
Crane Co. 338-39
Trenton Potteries Co..... 340
Closet Seats
Church, C. F., Mfg. Co..... 341
Closets—Chemical
Chemical Toilet Corp..... 334
Dail Steel Products Co..... 335
Kaustine Co., Inc..... 336
Western Metal Specialty Co..... 337
Faucets
Chicago Faucet Co..... 342
Mueller Co. 343
Heaters—Coal
Burnham Boiler Corp..... 387
Mueller, L. J., Furnace Co..... 364
Oakland Foundry Co..... 366
Richardson & Boynton Co..... 400
Thatcher Company 438
Heaters—Electric
Dahlquist Mfg. Co..... 418
General Electric Co.....304-23
Heaters—Gas
American Heating & Lighting Co. 416
Crane Co. 417
Dahlquist Mfg. Co..... 418
Everhot Heater Co..... 419
Holyoke Heater Co..... 420
Hot Stream Heater Co..... 421
Pittsburgh Water Heater Co..... 422
Welsbach Co. 423
Wood, John, Mfg. Co.....424-25
Heaters—Indirect
Hot Stream Heater Co..... 421
Thermal Appliance Co..... 401
Thrush, H. A., & Co..... 402
Heaters—Kerosene
Dahlquist Mfg. Co..... 418
Holyoke Heater Co..... 420
Hot Stream Heater Co.....421
Softeners
Crane Co. 324
Monarch Engineering Co..... 329
Vaile-Kimes Co. 332
Supply Systems
Crane Co. 324
Flint & Walling Mfg. Co..... 325
Fort Wayne Engineering & Mfg. Co. 326
Gurley Pump & Mfg. Co..... 327
Kewanee Private Utilities Co..... 328
Monarch Engineering Co..... 329
Myers, F. E., & Bro. Co. 330-31
Vaile-Kimes Co. 332

WATER
Water Supply
See Water Supply Systems
Pumps
Deep or Shallow Well
Crane Co. 324
Flint & Walling Mfg. Co..... 325
Fort Wayne Engineering & Mfg. Co. 326
Kewanee Private Utilities Co..... 328
Monarch Engineering Co..... 329
Myers, F. E., & Bro. Co. 330-31
Vaile-Kimes Co. 332

WATERPROOFING
Bird & Son, Inc..... 146
Breinig Bros., Inc..... 457
Cabot, Samuel, Inc..... 157
Craftex Co. 452-53
Morene Products Co., Inc.....454-55
Sandusky Cement Co.....34-35
Valentine & Co.....462-65

WAX—FLOOR
Breinig Bros., Inc..... 457
Johnson, S. C., & Son..... 458

WEATHERSTRIPS
Chamberlin Metal Weather Strip Co. 288-89
Diamond Metal Weather Strip Co. 287
Higgin Mfg. Co..... 290
Monarch Metal Products Co..... 291
Threshold Combinations
See Thresholds

WHEELBARROWS
Sterling Wheelbarrow Co..... 493

WINDOWS—BASEMENT—STEEL
Crescent Steel Co. 227
Detroit Steel Products Co..... 232
Donley Bros. Co..... 277
Federal Steel Sash Co..... 233
Lupton's, David, Sons Co.....238-41
Mesker Bros. Iron Co..... 281
National Steel Products Co..... 237
Sykes Metal Lath Co..... 92
Truscon Steel Co.....242-43
Western Architectural Iron Co... 244
Youngstown Pressed Steel Co..286 A
Casement—Bronze or Steel
Crittal Casement Window Co...228-31
Detroit Steel Products Co..... 232
Hoffman, Andrew, Mfg. Co.....234-36
Lupton's, David, Sons Co.....238-41
Mesker Bros., Iron Co..... 281
Truscon Steel Co.....242-43
Ventilating
Allen Window Co. of America... 213
Wood
Wheeler-Osgood Co.....212 A-B

WINDOW CHUTES—BASEMENT—COAL
Donley Bros. Co..... 277
Gabriel Steel Co.....282-83
Jackson, Edwin A., & Bro., Inc... 278
Mesker Bros. Iron Co..... 281
Sykes Metal Lath Co..... 92
Truscon Steel Co.....242-43
Youngstown Pressed Steel Co...286 A

WINDOW AND DOOR FRAMES
Andersen Lumber Co.....188-89
See also pages.....190-212

WINDOW—GLASS
American Window Glass Co.....286 B
Guards and Grilles
Standard Iron & Wire Works.... 296
Hardware
See Hardware
Opening Devices
See Operators
Screens—Metal and Wood
Baker, W. J., Co., Inc..... 292
Higgin Mfg. Co..... 293

WIRE LATH—also Lath and Insulation Combination
Wickwire Spencer Steel Co..... 94
Nails
See Nails
Screen Cloth
Wickwire Spencer Steel Co..... 94
Fence and Gates—Wire
Wickwire Spencer Steel Co..... 94

WIRING—ELECTRICAL
General Information 300-03
Complete Specifications for Residential Work
General Electric Co.....304-23

WOOD—COLUMNS
See Columns—Wood
Dyes
Johnson, S. C., & Son.....458
Fillers
Breinig Bros., Inc..... 457
Johnson, S. C., & Son.....458-9
Moore, Benjamin, & Co.....460-61
Finishes
See Varnish—Paints—Stains
Lath
Southern Cypress Mfrs. Assn....170-71
Lath and Insulation Combination
Bishopric Mfg. Co.....497-98
Flint Rock Stucco Co..... 98
Shingles
See Shingles—Wood
Stains
See Stains
Trim
See Trim—Wood
Windows
See Windows—Wood

WOODWORK
Bertelsen Adjustable Grille Co.... 196
Curtis Companies Service Bureau 190-91
Farley & Loetscher Mfg. Co.....192-93
Hurd Lumber and Woodwork Co. 194-95
Jones, Fred G., & Co..... 197
Morgan Woodwork Organization 198-204
Roberts Sash and Door Co.....206-07
Watsontown Door & Sash Co...210-11
Wilbur Lumber Co..... 212

WOODWORKING MACHINE
Jaeger Portable Machinery Co... 492

WROUGHT IRON GATES AND FENCES
Standard Iron & Wire Works.... 296

TRADE MARKS—as applied to Products Catalogued

and not identified by the name of the manufacturer.

Trade-Mark	Product	Page No.
A		
A. F. B. A.	Brick	39-41
Air-Way	Window Hardware	247
Ambler	Asbestos Shingles	144
American Universal	Floor Surfacing Machines	488
American	Wire Screen Cloth	295
Ambassador	Bathtub	340
Anchor Brand	Mortar Colors	61-63
Appalachian	Oak Flooring	186
Aquatherm	Hot Water System	418
Architex	Stucco Finish	83
Arco	Boiler	389
Arcola	Hot Water Heating	388
Arro-Matic	Red Cedar	224
Asbestone	Stucco, Flooring	85
Automatic	Refrigerator	469
B		
Barber	Gas Burners	414-15
Badger State	Cement	36
Balsam-Wool	Insulation	112-14
Bear Brand	Shingles	158-59
Berloy	Metal Lumber	80-81
Best	Glass	286B
Bestwall	Wall Material	120-21
Birch	Lumber	167
Bondcrete	Plaster	97
Breinig-Built	Paints, Varnishes, etc.	457
Buckeye	Finishing Lime	100-01
Buffalo Breezo	Ventilating Fans	407
C		
Cannon Ball	Garage & Barn Hardware	264-65
Carmilla	Lighting Fixture	468
Castleton	Colonnade	196
Ceda' Line	Cedar Closet Lining	183
Chem-O-Let	Chemical Toilet	337
Cincrete	Cinder Concrete Building Units	77-79
Clark	Gas Producer	409
Clark	Water Heating	416
Clinton	Wire Lath	94
Colormixt	Shingles	155
Conco	Clay Products	47
Conservo	Wood Preservative	157
Copper Clad	Shingles	135-37
Corwith	Bathtub	338-39
Craftcoat	Glaze	452-53
Cromar	Oak Flooring	184
Crystal Spar	Limestone	99
D		
Dandie	Mixers	485
Darlington	Brick	46C-D
Dellarobbia	Lighting Fixtures	468
Du-O-Dor	Beds	446-47
Duo-Var	Waterproof Varnish	457
E		
Edham Kolored	Shingles	162
Empire	Furnaces	359
Eternit	Shingles	140-41
Ever-Dure	Prepared Wax	457
E-Z	Radiator Hangers	408
F		
Febrisco	Steel Windows	233
Fenestra	Steel Windows	232
Flex-A-Tile	Shingles	499-500
Flexibac	Iron & Steel Coverings	157
Florentine	Lighting Fixture	468
Free-O-Dust	Floor Surfacing Machine	489
Frigidaire	Electric Refrigerator	472
Furnola	Heater	384
Furnacette	Heater	386
G		
G. E. Wiring System	Electrical Equipment	304-23
Georgia	Brick	44-45
Geyser	Hot Water Heater	438
Giant Brix	Hollow Bricks	57-60
Gilt-Edge	Furnaces	370-71
Glo-Coat	Enamel	458-59
Glo-Hot	Fireplace Equipment	275
Gold Metal	Finishing Lime	102-03
Gyp-Lap	Sheathing	127
Gypsolite	Wall Board	126
H		
Hawk Spread	Finishing Lime	100-01
H. & C.	Registers	374-77
Heatrola	Heaters	385
H. M. R.	Shingles	154
Homasote	Fibre Board	122
Hoosier	Water Supply System	325
Hot Blast	Heaters	358
Hot Ray	Furnaces	357
I		
Ideal Arco	Round Boiler	389
Ideal	Basement Windows	244
Ideal Vecto	Heaters	383
Imperial	Roofing Tile	134
Impervo	Varnish	460-61
Improved	O. G. Fir Gutters	187
In-A-Dor	Beds	442-44
In-A-Dor	Ironing Board	192-93
In-A-Wall	Ironing Board & Cabinets	444
In-A-Wall	Telephone Seats	222
Indian Brand	Roofing	247
In-Laid	Roof Roofing	138-39
Insulex	Gypsum Insulation	115
J		
Jaxon	Firep'ace Equipment	378
K		
K-B	Sheathing	137
Kemisol	Waterproofing	454-55
Kernerator	Incinerators	298-99
Keylock	Stucco & Plaster Base	98
Keystone	Gas Water Heater	417
King	Heater	366
Kitchen Maid	Kitchen Cabinets	222-23
Kornerite	Metal Lath Angle	92
Kragstone	Stucco	84
L		
Lacquersize	Size	452-53
Laminex	Doors	212A-B
Lawco	Medicine Cabinet	348
Lime Crest	Limestone	99
Linabestos	Wall Lining	144
Lok-Top	Shingles	499-500
M		
Magnestone	Stucco	82
Mailo-Box	Mail Box	251

TRADE MARKS (Continued)

Trade-Mark	Product	Page No.
Maltese Cross	Cedar-Lumber	225
Marvel	Gas Water Heater	417
Medusa	White Portland Cement	34-35
Merion	Gas Water Heater	424-25
Metro	Face Brick	52-53
Midvale	Brick	44-45
Mineral Wool	Insulation	116
Mooramel	Enamel	460-61
Movar	Varnish	460-61
Mule-Hide	Shingles & Roofing	148-49
Multicrome	Roofing	499-500
Murdock Jr.	Water Supply	327
Muresco	Water Paint	460-61
Moncrief	Furnaces	361
N		
Natco	Hollow Tile	68-69
Natroco	Asphalt Roofing & Shingles,	153
Nasco	Asbestos Shingles & Boards	152
Neponset	Roofings, Building Papers	146
Newcomerstown	Brick	44-45
No-Streak	Warm Air Registers	378-79
Nova	Lavatory	338-39
Nu-Tile	Asphalt Shingles	138-39
O		
O. G.	Fir Gutters	187
Ohio	Finishing Lime	100-01
Oil-Craft	Furnaces	358
Olco	Oil Heater	403
Old Masters	Enamel	457
Olde Stonesfield	Roofs, Flagging, Etc	132-33
Oriental	Stucco	87
Out-O-Site	Beds	445
Out-O-Wall	Warm Air Registers	378-79
P		
Paroid	Roll Roofing	146
Paul	Water Supply	326
Pen-O-Stains	Stains	457
Perfect	Gas, Coal, Comb. Ranges	430-33
Perfect	Furnaces	367-69
Perfectone	Paint, etc.	458-59
Permacote	Wall Finish	458-59
Petrofluid	Waterproofing	454-55
Pondosa Pine	Lumber	174
Premier	Gas Water Heater	417
Presto	Disappearing Stairway	215
Progress	Boiler	398-99
Pulmanook	Breakfast Nook	222-23
Purus	Water Closet	338-39
Pyrocell	Insulation	117
Q		
Quality	Gas Ranges & Appliances	434-35
Qualitybilt	Woodwork	192-93
Quaturn	Faucet	342
Quicklock	Garage Lock	271
R		
R. & B	Heating Equipment	390-93; 367-69 400; 430-33
Red Cross	Ranges & Furnaces	428; 359; 384
Red Top	Plaster	97
Reliable	Scaffold Brackets	483
Reliance	Tape	480
Reswin	Casement Windows	228-31
Rex	Roofing & Bldg. Paper	135-37
Riverside	Plasters	96
Robertsville Reds	Brick	44-45
S		
Safty-Saw	Portable Saw	491
Sal-mo	Asbestos Products	156
Safekote	Roofing, Building Papers, Etc.	155
Sana-bestos	Floor Tiles	85
San-Equip	Chemical Toilet	334
Sani-Flat	Paint	460-61
Sani-Spar	Varnish	458-59
Sani-White	Toilet Seat	341
Sel-Klo	Faucet	342
Semco	Heating System	394-95
Shamrock	Drawing Table	480
Sheetrock	Wall Board	125
Simplex	Levels	478-79
Siwelclo	Water Closet	340
Slidetite	Garage Hardware	266-67
Slydasyde	Garage Door Hardware	267
Snow White	Medicine Cabinet	347
Spencer	Magazine Fuel Heaters	396-97
Spot Cord	Sash Cord	274
Star	Barn Equipment	272-73
Standard	Water Heater	424-25
Star Brand	Copper Products	294
Sunfast	Stucco Finish	497-98
Super-Smokeless	Furnace	373
Super-Standard	Lumber	176-77
T		
Taco	Hot Water Heater	401
Tarnia	Bathtubs	338-39
Te-Pe-Co	Plumbing Fixtures	340
Textone	Wall Finish	456
Thatchslate	Slate Roof	132-33
Tidewater	Cypress	170-71
Tiger	Limes	104-05
TU-EL	Roofing	150-51
Tuxedo	Lavatory, Wash Pedestal	340
V		
Vall'e	Face Brick	55
Valspar	Varnish, Stain, Enamel	462-65
Vecto	Heater	383
Vehisote	Fibre Board	123
Vellux	Tracing Paper	478-79
Velvetile	Flooring	84
Velve-Tex	Brick	44-45
Ventura	Ventilating Fan	406
Victor	Furnaces	360
Viskalt	Roofing, Paints, Etc.	499-500
V. K.	Water System	332
Vol-Yum	Warm Air Registers	378-79
Vulcanite	Roofing Materials	142-43
W		
W. B. C.	Clay Products	56
Western Red Cedar	Lumber	168
Whitco	Casement Hardware	248-49
White Enamel	Finishing Lime	102-03
White Lily	Finishing Lime	102-03
White Rock	Wall Board	117-18
Wilcolator	Oven Heat Regulator	428
Win-Dor	Casement Hardware	245
Winner	Ironing Board Cabinet	206-07
Winthrop	Asphalt Shingles	145; also 47
Woco	Fir Sash	212A-B
Wolverine	Chemical Toilet	335
Y		
Yorktown	China Closet	196
YPS	Steel Products	286A

ALPHA PORTLAND CEMENT

Manufactured by

ALPHA PORTLAND CEMENT COMPANY

General Offices: 17-19 Center Sq., Easton, Pa.; 140 S. Dearborn St., Chicago, Ill.

Sales Offices: New York, Boston, Philadelphia, Pittsburgh, Baltimore, St. Louis, Battle Creek, Mich., Ironton, Ohio.

Plants at: Cementon, N. Y., Jamesville, N. Y., Manheim, W. Va., Martins Creek, Pa., St. Louis, Mo., La Salle, Ill., Ironton, Ohio, Bellevue, Mich.

Product:

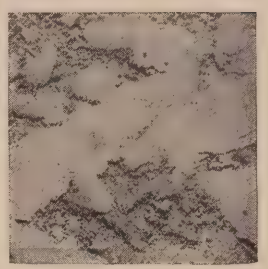
The one product of the Alpha Portland Cement Company is ALPHA CEMENT, made only in one grade and sold always on the guarantee that it will meet standard specifications adopted by the American Society for Testing Materials, and approved by the American Engineering Standards Committee.

ALPHA CEMENT is furnished oridinarily in cotton sacks (see illustration below), carrying 94 pounds net—approximately one cubic foot of actual cement—but will be supplied also in paper containers or in bulk carload shipments without containers.

ALPHA CEMENT is one of the oldest American brands and won its reputation in the days when foreign-made cements were used generally in America because of their supposed superior quality. Hourly tests during manufacturing process insure uniform ALPHA quality.



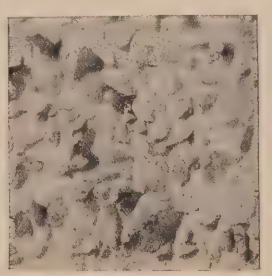
Torn float finish.



Floated rough cast finish.



Special textural finish.



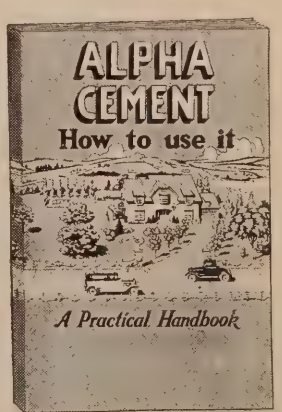
Colored rock dash finish.

Four different surface suggestions easily obtainable with ALPHA CEMENT.

Suggested Uses:

ALPHA CEMENT will give the best results in every type of improvement calling for a high-grade Portland Cement. The requisites are simple—that it be thoroughly mixed with proper proportions of water and suitable aggregates—clean sand and crushed stone, gravel or pebbles, slag, or other approved coarse aggregate. All cement improvements should be reinforced at points that undergo strain.

ALPHA CEMENT improvements, whether for the home building proper or for supplementary improvements for the yard or farm, have much in their favor. They can be made rust-proof, rat-proof, rot-proof, fireproof and water-proof. As the illustrations on this page show, there is a pleasing variety of surface finishes obtainable. This variety may be increased by the use of suitable coloring matter in the mortar. The Alpha Cement Handbook, illustrated on this page, gives formulas for obtaining these color effects, whether for main walls of house or for porches, walks, gate-posts, etc. ALPHA CEMENT stucco mortar may be applied directly to the surface of the coarsely finished cement block with satisfying results. Such an exterior always looks well and requires no painting.



The ALPHA CEMENT Handbook.

Tables for Use of ALPHA CEMENT:

In addition to the table shown at the bottom of this page, the ALPHA CEMENT literature contains many other useful tables.

Directions for Placing a Stucco Coat:

Drench the masonry and cement block walls thoroughly with water, but let drain off before applying the stucco. Apply the stucco continuously in one direction, and do not let the edges dry up. Work stucco coats only to an extent that is absolutely necessary. Keep mortar coats wet for several days. Apply water as soon as each coat has hardened enough so that it will not wash. Apply the finish coat only after previous coats have been cured for at least one week. Use only wood float to prepare the finish coat for final surface finishing.

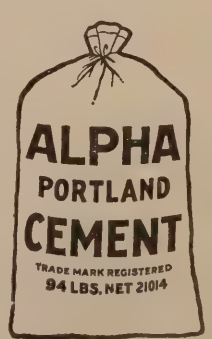
ALPHA CEMENT Literature:

Alpha Cement Dealers in nearly all populous communities will be pleased to supply contractors and property-owners with a variety of literature and service sheets showing designs for scores of permanent and handsome home, yard and farm improvements made possible through the use of ALPHA CEMENT, such as steps, porches, retaining walls, driveways, storage cellars, garages, yard furniture, tennis courts, culverts and drains, septic tanks, hot beds, cisterns, well caps, posts, pools, etc. Prominent in the list of literature is the valuable handbook shown on this page, consisting of 112 freely illustrated pages, suggesting good plans and the most approved methods of building. If the reader of this page doesn't know the Alpha Cement Dealer in his community, he should write direct to the Alpha Cement Company's nearest office for a copy of this practical handbook.

MATERIALS REQUIRED FOR 100 SQ. FT. OF SIDEWALKS AND FLOORS FOR VARIOUS MIXTURES AND THICKNESS OF COURSES

Thickness of Course in Inches	Wearing Course				Base Course								
	1:1½		1:2		1:2:3			1:2½:4			1:2½:5		
	Cement	Sand	Cement	Sand	Cement	Sand	Stone*	Cement	Sand	Stone*	Cement	Sand	Stone*
½	2.4	0.13	2.0	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	4.8	0.26	3.9	0.29	.....	.....	.....	.....	.....	.....	.....	.....	.....
1½	7.2	0.40	5.9	0.43	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	9.6	0.53	7.9	0.58	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	.....	.....	.....	.....	6.5	0.48	0.72	5.2	0.48	0.77	4.6	0.43	0.86
4	.....	.....	.....	.....	8.6	0.64	0.95	6.9	0.64	1.02	6.2	0.57	1.14
5	.....	.....	.....	.....	10.8	0.80	1.19	8.6	0.80	1.27	7.7	0.71	1.43
6	.....	.....	.....	.....	12.9	0.96	1.43	10.3	0.95	1.53	9.2	0.86	1.72

Quantities of ALPHA CEMENT are expressed in sacks, aggregates in cubic yards.
*Stone is used to include screened gravel (pebbles) or broken stone.



Standard package of Alpha Cement, containing 94 lbs. net.

For further details and literature, write to: **ALPHA PORTLAND CEMENT COMPANY** EASTON, PA. or CHICAGO, ILL.

Medusa White Portland Cement

Manufactured by

THE SANDUSKY CEMENT COMPANY, CLEVELAND, OHIO

Mills located at:
York, Pa.
Dixon, Ill.
Silica, near Toledo, Ohio
Bay Bridge, Ohio

MEDUSA
WHITE CEMENT
Waterproofed or Plain

Medusa Products include: Medusa White Portland Cement, Medusa Waterproofing, Medusa Cement Paint and Medusa Gray Cement.

Products

In giving of specifications for the use of Medusa White Portland Cement for Stucco it is necessary to mention another Medusa Product, Medusa Integral Waterproofing. The following specifications proceed on the assumption that every builder wants to realize the utmost from his investment. For that reason Medusa Waterproofing is recommended for use with all gray Portland Cement work and Medusa *Waterproofed* White Cement is recommended for use in the second and third coats of stucco.



Uses for Medusa White Portland Cement Other Than Stucco

Medusa White Portland Cement will be found valuable at many points in home construction. Among them might be listed sidewalks, driveways, basement plaster coat, interior plaster work, cast-stone trim and garden furniture, mortar for laying up tile in bath rooms, mortar for laying up incidental stone or brickwork such as chimneys or entrance-ways, etc. These uses will suggest many more where the stainless qualities of Medusa White Portland Cement will prove valuable.

Fundamental Rules for the Production of Good Stucco

(a) Use proper proportions and carefully selected sand and aggregates of correct fineness.

(b) If an absorbent base, such as hollow tile, concrete block or brick is used, it must be sprinkled with water to the point of saturation before applying fresh stucco.

(c) All stucco coats—base or scratch coat, second or brown coat, third or finish coat—must be waterproof. This is just as important in the case of the base coat as any other, since the base coat must not possess sufficient "suction" or absorptive tendency to take up the water from the fresh cement plaster or stucco coat applied to it before the cement has had an opportunity to hydrate, and the coat to set.

(d) Each stucco coat must be sprinkled with water before applying the next coat; and the finish coat must be kept evenly moist by sprinkling. In hot weather the work must be shielded from the direct rays of the sun, and protected at all times from the wind.

The importance of these precautions cannot be overestimated.

Materials

The Cement for the first coat (base or scratch coat) shall be standard gray Portland cement conforming to the specifications of the American Society for Testing Materials, with addition of Medusa Waterproofing, powder or paste, to the amount of 2 per cent by weight of the cement used (2 lbs. to the sack of cement).

The Cement for the second or brown coat and the third or finish coat, shall be Medusa *Waterproofed* White Portland Cement.

1. *Fine Aggregate*—Fine aggregate shall consist of sand, or screenings from crushed stone or crushed pebbles, evenly graded from fine to coarse, passing when dry a No. 8 screen. Fine aggregates should preferably be of silicious materials, clean, coarse, and free from loam, vegetable, or other deleterious matter.

2. *Hydrated Lime*—Hydrated lime shall meet the requirements of the standard specifications for hydrated lime of the American Society for Testing Materials, being used to add plasticity to the mixture and to act as a water retainer, sufficient to perfect crystallization, and to prevent too rapid drying out.

(*Continued from Preceding Page*)

3. *Coloring Matter*—Only permanent, lime-proof colors shall be used. Finish coat containing colors shall be applied as dry as possible to prevent separation of the colors. (The use of Medusa Waterproofing will prevent the gradual washing-out of a color surface.)

4. *Water*—Water shall be clean, free from oil, acid, strong alkali or vegetable matter.

Mortar Coats

Mortar—All coats shall be 1 part Waterproofed Portland Cement and 3 parts fine aggregate; hydrated lime for buttering purposes, 10 per cent of the cement used.

Application—The plastering shall be applied with a steel trowel and carried on continually in one general direction without allowing the plaster to dry at the edge. If it is impossible to work the full width of the wall at one time, the joining shall be at some natural division of the surface, such as a window or door.

The first coat shall thoroughly cover the base on which it is applied and shall be troweled enough to insure the best obtainable bond. Before the coat has set it shall be heavily cross-scratched with a saw-tooth metal paddle or other suitable device to provide a strong mechanical key.

The first coat shall be thoroughly wet down before the second coat is applied. The second coat shall be applied, whenever possible, on the day following the application of the scratch coat, and shall be brought to a true and even surface by screening at intervals not exceeding 5 feet, and by constant use of strengthening rod.

When the second coat has stiffened sufficiently, it shall be dry floated with a wood float and lightly and evenly cross-scratched to form a good mechanical bond for the finish coat.

The day following the application of the second coat, and for not less than three days thereafter, the stucco must be thoroughly sprayed at frequent intervals and kept from drying out.

The finish coat shall be applied not less than a week after the application of the second coat. Methods of application will hereinafter be described under "Finish."

Drying Out—The finish coat must not be permitted to dry out rapidly, and adequate precaution must be taken to make this certain, by sprinkling frequently after the mortar is set hard enough to permit it, or by hanging wet burlap or similar material over the surface, during hot weather.

Freezing—Stucco should not be applied when the temperature is below 32 degrees F., nor under any condition such that ice or frost may form on the surface of the wall.

Finishes

The architectural treatment of the house should determine the exact finish given the stucco. Lack of space here makes it impossible to us to discuss this important question. However, we'll gladly supply catalogs giving complete information on the handling of stucco. These may be had at any time, along with definite information on any particular job.

Service

Medusa Products are obtainable all over the country from leading building materials dealers. If you are unable to locate your Medusa dealer, we'll gladly give you his name and address. He will assist you on any problem relating to stucco work and will also be able to place in your hands Medusa literature and catalogs covering the work both with text and illustrations.

Service

As outlined above you will note that service on Medusa Products is obtainable from two sources. At our offices, or from your own local dealer—both stand ready and willing to serve you at all times.

Badger State Cement

Manufactured by

MANITOWOC PORTLAND CEMENT CO.

Manitowoc, Wisconsin

Trade Mark

Permanent Beauty for Home Construction

To build a home of portland cement stucco is less expensive than other stuccos, because of the general distribution of the materials composing it. Portland cement, sand and water are everywhere available. For a beautiful home use portland cement stucco made of BADGER STATE cement. Its strength and uniformity make it adaptable for a perfect stucco job, which is imperishable.

Examples of stucco created in the middle centuries are in use today and stucco properly applied, will withstand the ravages of the elements. In selecting portland cement stucco for your home you are *not* experimenting with an unknown material, because portland cement is made according to definite specifications standardized by the United States Government. BADGER STATE cement more than meets these specifications.

Other Home Uses for Portland Cement

In addition to building your home of stucco you have use for BADGER STATE cement in making sidewalks, floors, driveways, garages, garden and lawn decorations, and any place where you want permanent construction.

BADGER STATE Service

Made in the most up-to-date cement mill in this territory and located at a point to serve by rail or water without delays due to lack of cars, BADGER STATE is distributed through your local building supply dealer and shipments are made direct from our plant over the shortest routes, so that adequate stocks can be maintained at all times by your home dealer

Write us for Specifications on portland cement stucco application. It's part of our service.

Concrete for Permanence



Observe the homelike effect shown in the above detail.

For further details and literature, write to: **MANITOWOC PORTLAND CEMENT CO., MANITOWOC, WIS.**

FOR PARTICULAR PEOPLE

Nazareth Portland Cement

FOR PERMANENT STRUCTURES

Made by

NAZARETH CEMENT COMPANY

Nazareth, Pa.

SALES OFFICES IN NEW YORK, PHILADELPHIA AND BOSTON

Product

A high-grade Portland Cement made to meet the exacting specifications of the American Society for Testing Materials. Suitable for every purpose for which cement can be used.

Location of Plant

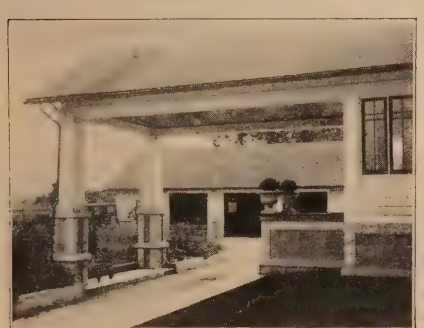
The plant of this company is located at Nazareth, Northampton County, in eastern Pennsylvania, a locality long famous for the excellence of the raw materials from which the best grades of cement are made. It was in this part of Pennsylvania (in an adjoining county) that the first cement mill in the United States was established in 1872. With all needed raw materials and fuel close at hand and with excellent shipping facilities by rail, being on 2 trunk line railroads, the Nazareth Cement Company is ideally located to produce and ship its product.

Modern Methods of Manufacture

The Portland Cement made by this company is manufactured by the most approved methods and every precaution is taken to insure a product of the highest possible quality. It may be used by contractors with the assurance that it will meet every requirement of the American Society for Testing Materials, U. S. Government Specifications, or the requirements of local building authorities.



For Cement Stucco Use Nazareth Portland Cement



For Walks and Drives Nothing Better than Nazareth Portland Cement

Uniform Quality

Every sack of Nazareth Portland Cement is marked with the trade-mark shown above which is a guarantee of uniform quality, and that quality the best. A most rigorous system of inspection beginning with the raw materials, continuing through every step in the process of manufacture and ending with the finished product insures users of Nazareth Portland Cement that the contents of each sack, wherever and whenever purchased, will be identical with the contents of every other sack in fineness, strength, constancy of volume, setting qualities, permanence and freedom from impurities.

NAZARETH PORTLAND CEMENT IS USED FOR EVERY CONSTRUCTION PURPOSE WITH UNIFORMLY SATISFACTORY RESULTS.



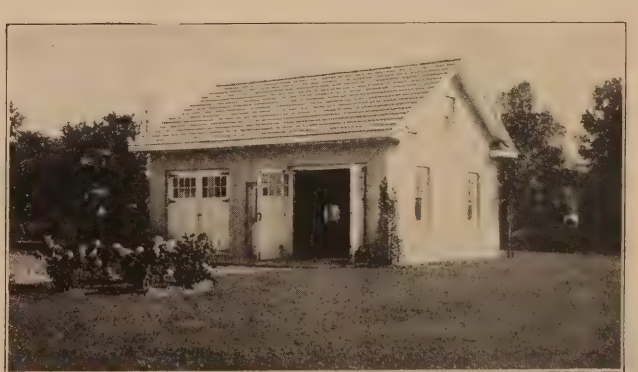
A Charming Country Home Built with Nazareth Portland Cement



Beautify the Garden with Nazareth Portland Cement



Pergola on Cast Foundations of Nazareth Portland Cement



Nazareth Portland Cement Used in the Construction of This Fine Garage

For further details and literature, write to: **NAZARETH PORTLAND CEMENT, Nazareth, Pa.**

Brick--Burned Clay

Produced by Members of

THE COMMON BRICK MANUFACTURERS' ASSOCIATION OF AMERICA

2167 Guarantee Title Building, Cleveland

Information, all literature and displays of new type walls at

DISTRICT OFFICES:

Chicago, Chamber of Commerce Bldg.
Denver, 1735 Stout St.
Detroit, Mich., 400 U. S. Mortgage Trust Bldg.
Hartford, Conn., 226 Pearl St.
Los Angeles, 342 Douglas Bldg.
Nashville, Tenn., 804 Harry Nichol Bldg.
New Orleans, La., 904 Carondelet Bldg.
New York City, 1710 Gr'd Cen. Term'l Bldg.
Philadelphia, City Centre Bldg.
Portland, Ore., 906 Lewis Bldg.
St. Louis, 605 Wainwright Bldg.
Salt Lake City, 301 Atlas Bldg.
San Francisco, 811 Sharon Bldg.
Seattle, Wash., 524 Burke Bldg.
Springfield, Mass., 301 Tarbell-Watters Bldg.

What Is the Easiest Home to Build and Sell?

A brick home, *always*. Building with brick requires practically no equipment, less labor, and involves fewer delays. A thousand brick per day is a fair average for one man to lay.

Selling a brick home is always easy because people *want* such homes. Feature the 100% brick home, and thereby cash in on the advertising of this Association. Make it *your* advertising.

What Is Brick?

Genuine brick is made by burning clay until everything decayable or burnable has been burned out. Brick is the nearest approach to an *everlasting material* made by man.

What Is a Brick Home?

One that is 100% brickwork—brick footings, basement or foundation walls, side walls, chimneys, fireplaces, porches, and steps. There is no substitute for brick of burned clay, nor is there any economy, in first cost or upkeep, in using anything but genuine brick throughout.

Why Is a Brick Home Best?

Primarily because it costs almost nothing to maintain. Brick requires no paint, has a resale value often greater than its original cost, and its beauty grows as time and weather mellow the colors in the burned clay.

Then, too, brick is easily and quickly handled. The mason quickly lays it into a wall unrivaled for strength and stability. Being built of small bonded units the load is quickly transmitted over a large area. No special sizes or shapes are required for corners, jambs, etc. And brick is always obtainable from a local manufacturer.

What Does a Brick Home Cost?

As little or as much as you want to spend. Your brick home may actually cost less than frame. The finest brickwork throughout should cost only $400 to $500 more. Four types of brick walls have been developed to give you a 100% brick home at almost any price.



The Finest Solid Wall

You can build an ordinary six room house of solid brickwork for only $400 or $500 more than for frame. This small added cost is repaid many times in higher resale value and the lack of painting. Compared to other solid walls, those of brick cost less, last longer, look better, and give more satisfaction.

The Finest Hollow Walls

At a cost actually less than for other types of hollow walls, you can build with brick. And your brick hollow wall is highest in strength, most resistant to fire, and costs less to maintain. Brick hollow walls are built 8 or 12 in. thick, as desired. They have the same distinctive appearance as all real brickwork.

The Economy Wall

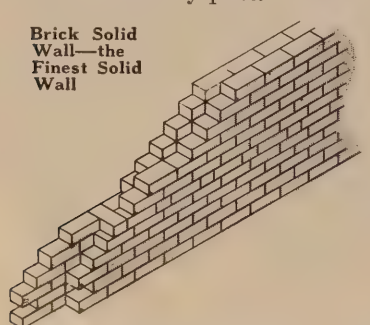
At a cost far less than other types of masonry, and often less than frame, you can build the Economy Brick Wall. For bungalows, small homes, and other light construction, this wall gives you, at no extra cost, the lasting economy of real brickwork.

Get Folders and Plan Books

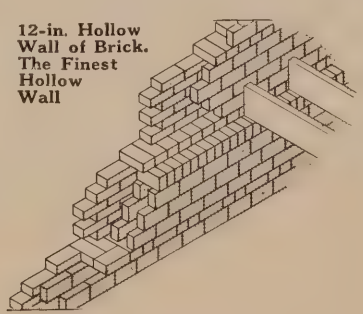
Details of these brick walls are contained in folders sent free upon request. Our handbook on brick construction, "Brick, How to Build and Estimate," (25c) is an invaluable guide to builders. Tables of materials and detailed descriptions of wall construction.

120 fine brick homes are shown in our two plan books—"Your Next Home" and "The Home You Can Afford" (10c each). "Skintled Brickwork" shows latest effects in rough texture walls (15c). "Brick Silos and How to Build Them" (10c). "Farm Homes of Brick" (5c). At any of the offices listed above you can secure these books and complete information.

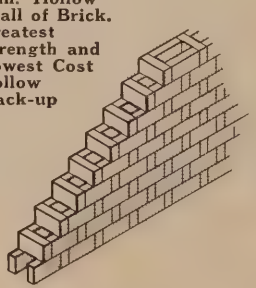
Complete blueprint working drawings may be had as low as $10 a set for every home shown in our two plan books. Free 24-page folder, "Hollow Walls of Brick and How to Build Them" sent free on request to any builder or owner.



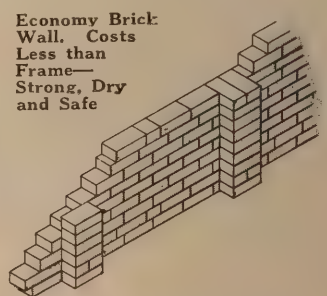
Brick Solid Wall—the Finest Solid Wall



12-in. Hollow Wall of Brick. The Finest Hollow Wall



8-in. Hollow Wall of Brick. Greatest Strength and Lowest Cost Hollow Back-up



Economy Brick Wall. Costs Less than Frame—Strong, Dry and Safe

For further details and literature, write to: **The Common Brick Manufacturers' Association of America** Cleveland, O. & Branches

AMERICAN FACE BRICK ASSOCIATION

130 North Wells Street, Chicago, Illinois



A. F. B. A. Five-Room House, No. 505
As built at Lexington, Massachusetts



A. F. B. A. Six-Room House, No. 627-A
As built for "Better Homes in America" at Park Ridge, Illinois

Products

A·F·B·A USE FACE BRICK —*it Pays*

Face Brick of every variety of surface texture and color tone manufactured by the members of the *American Face Brick Association.* List of members furnished on request.

Permanence, Economy, Beauty

Everyone knows that brick construction is economical, permanent, and beautiful and therefore makes the best investment. There is such a wide variety of color tones and surface textures that practically any effect can be had.

Wide Awake Contractors and Dealers

Will do well to cash in on the growing popularity of Face Brick construction. The vogue of beautiful, moderate-priced Face Brick homes is growing because of their genuine merits.

One Beautiful Brick House Sells Many More

There is a wide field of development for the Contractor and Builder. One attractive Face Brick house in a community will sell a dozen more for the builder.

Dealers should form a connection with a member of the Association and secure a part of this increasing business.

Special Sizes and Special Shapes

In addition to standard sizes, Face Brick can be made to order in special shapes and sizes to meet unusual or any desired condition, when proper architectural details are furnished and sufficient time given.

Helpful Service

The Association issues many valuable booklets and other literature that Contractors, Builders and Dealers will find helpful. They are full of worth-while suggestions and reliable data on Face Brick construction. The more important booklets are given below; complete list sent on request.

"The Story of Brick," 56 pages, is an attractive booklet with beautiful illustrations of modern homes. It discusses such matters as Comparative Costs, Basic Requirements in Building, the Extravagance of Cheapness, and kindred subjects. Sent free.

"The Home of Beauty" shows 50 designs of 6-room Face Brick houses, selected from 350 designs submitted in a nation-wide Architectural Competition. Complete working drawings, etc., available at nominal prices. Booklet sent for 50 cents.

"Face Brick Bungalow and Small House Plans" show 120 designs of Face Brick bungalows and small houses which are unusual and distinctive in design, economical to build and convenient in floor plan. Complete working drawings, etc., available at nominal prices. These plans issued in four booklets showing 3 to 4-room houses, 5-room houses, 6-room houses, and 7 to 8-room houses. The set for one dollar, any one booklet, 25 cents.

"Two Apartment and Double House Plans in Face Brick" shows 14 attractive designs of Duplex and Double Houses. Complete working drawings, etc., available at nominal prices. Booklet sent for 25 cents.

"The Home Fires" tells the best method of fireplace construction and shows twenty original fireplace designs, for which plans may be obtained for one dollar each. Also shows 25 halftones of designs of well-known architects which will be helpful to the Contractor who wishes to plan his own fireplace. Booklet sent for 25 cents.

A Manual of Face Brick Construction, a 116-page book on the three types of Face Brick wall construction. All the information a Contractor needs for building Face Brick houses and useful to anyone building a home. Sent for one dollar.

"A New House for the Old," a valuable booklet on veneering old frame and stucco buildings, with many illustrations and full instructions. Sent free.

For further details and literature, write to: **AMERICAN FACE BRICK ASSOCIATION,** 130 North Wells Street, Chicago, Ill.

FACE BRICK SPECIFICATIONS

1—**Face Brick**[1] (See notes)—The following surfaces[2] shall be faced with (state manufacturer's or dealer's name and trade designation).

1a—**Face Brick (Alternate)**—The following surfaces[2] shall be faced with face brick (state size)[3] selected by the architect..... Estimate brick at ..... per M delivered on the job, or F.O.B. at ..... If price exceeds estimate, contractor will be entitled to an extra; if price is less, owner will be entitled to a credit. Extra or credit shall be based on shipping invoices.

2—**Window Sills**—All window sills shall be (state name of brick if not same as facing) face brick, set on a slope of at least 1 in. in 1 ft., and projected at least 1 in. beyond wall. Use 1-2 cement mortar with smooth finished joints.

3—**Parapets and Fire Walls**—All parapets and fire walls above flat roofs shall be of (state name of brick if not same as facing) face brick laid in 1-2 cement mortar.[4]

4—**Copings**—All copings shall be of (state name of brick if not same as facing) face brick set as per drawings in 1-2 cement mortar, with smooth finished joints.

5—**Cement Mortar**—All mortar for face brick work in (state part of work) shall be composed of 1 part Portland Cement to 2, 2½, or 3 parts sand (state kind).[5]

6—**Lime Mortar**—All mortar for face brick work in (state part of work) shall be composed of 1 part lime putty or hydrated lime to 2, 2½, or 3 parts sand (state kind).[5]

7—**Cement-Lime Mortar**[6]—All mortar for face brick work in (state part of work) shall be composed of 1 part Portland Cement, 1 part lime putty or hydrated lime, and 6 parts of sand (state kind).[5] No cement or cement-lime mortar that has set on the boards overnight is to be retempered and used.

8—**Mortar Color**—All mortar for face brick in (state part of work) shall be mixed with (state amount, brand, and color) mortar color per thousand brick.[7]

9—**Laying**—(a) All brick shall be laid on a full bed of mortar (for joints over ⅛ in.).

or(b) All brick (with joints ⅛ in. or less) shall be thoroughly buttered.[8]

All brick (except with buttered joints) shall be shoved into place and all vertical joints thoroughly filled.

In (state parts of wall) the space between successive tiers of brick shall be (state whether slushed or left unslushed). Vertical joints, up and down the wall (in all bonds except running and common) shall be plumbed.

When temperature is below freezing or likely to fall below during the night, all materials including water, shall be heated before using.

No brick with ice or snow on them and no frozen mortar shall be used. The mixing of salt in the mortar to check freezing is absolutely prohibited. At no time shall the face brick be carried more than approximately six courses above the backing, and both shall be brought to a level every night and well covered with building paper, planks, or the like to protect against damage by the elements.[9]

10—**Joints**[1]—All brick work in (state part of work) shall be laid with (state width and kind of mortar joint).[10]

11—**Bond**[1]—All face brick in (state part of work) shall be laid in (state kind of bond).

Masonry Construction—(a) Face brick shall be bonded to backing every ..... course with full headers.[11]

or(b) face brick shall be bonded to backing with heavy (state kind) galvanized iron wall ties.[12]

Veneer Construction—(a) Face brick veneer shall be bonded to frame wall with 30-d nails driven through the sheathing, slightly above the level of the brick, into each stud approximately every foot in height and bent down so as to extend level into the joint at least one inch.[13]

or(b) Face brick veneer shall be bonded to frame with heavy (state kind) galvanized iron wall ties securely nailed to the sheathing 16 inches apart, every foot in height.

12—**Fireplaces**—The fireplace shall be faced with (name) brick laid as per drawings, with (state kind, size, and color) joints in (state kind) mortar. The hearth shall be of (name) brick laid as per drawings in a 1-3 cement mortar, colored to match the brick, with a flush ¼ in. joint finished smooth. Back hearth and lining shall be of refractory brick, laid as per details, with a narrow joint in fire clay.

13—**Cleaning and Pointing**—When plasterer has left building, all surfaces of face brick shall be thoroughly cleaned down by applying a 5 per cent solution of muriatic acid with a stiff wire brush to remove all spots and stains, and then rinse with clean water. All defective joints shall be carefully pointed up at this time.

14—**Brick Walks, Terraces, etc.**—(a) Upon a cushion of sand 1 in. thick shall be laid (name) face brick, placed (state on edge or flat) with (state size) joints, in pattern shown on plans. Joints

FACE BRICK SPECIFICATIONS—(Continued)

shall be filled with a 1-2 cement grout. Before any surplus grout has set too hard on the surface of the bricks it shall be thoroughly cleaned off with a slightly wet stiff brush.

or (b) Joints shall be filled with dry sand swept into place and wet down until joints are thoroughly filled.

NOTES

1. In case two or more kinds of brick, bonds, or joinings are used on exterior or interior surfaces, simply repeat the clauses as required.
2. The backs of all parapets, and other like surfaces exposed to view, should be of the same face brick as specified for adjoining walls.
3. The standard sizes of face brick as established by The American Face Brick Association are approximately 2¼x 8x3¾ in. for rough and 2¼x8x3⅞ in. for smooth brick. In laying out face brick work it is essential that the architect ascertain the exact size of the brick to be used before the drawings are made.
4. As such surfaces are generally subject to snow drifts, an extra hard brick is necessary to resist action of frost.
5. For ¼ in. to ⅜ in. joints, use sand that will pass through a 12 mesh screen. For narrower joints, a sand passing a slightly finer mesh. For wider joints use torpedo sand, gravel, or crushed stone screenings, depending on width of joint. Colored sand or colored stone screenings may be used for colored joints. For white joints use pure white silica sand; or marble dust, either of which is furnished on the market in bags. In case cement mortar is used, a white cement is necessary.
6. Recommended, except in special cases, for all exterior work.
7. Amount and method of mixing should follow the recommendations of the manufacturer, unless individual experience has taught otherwise. Note that amount differs with size of joint.
8. When bricks are made with a depression, a very thin joint may be secured by spreading the usual mortar bed.
9. In dry warm weather, non-vitreous brick may be wetted before laying, as experience dictates.
10. Variations of jointing are possible in the same job such as raked horizontal with flush vertical joints, wide horizontal with narrow vertical joints, flush joints in panels with raked joints in bordering parts, etc., when special shadow effects in the texture of the wall are desired.
11. Number of headers depends on bonds used and requirements of local ordinances.
12. For Running Bond only, and if allowed by local ordinances.
13. Recommended as simpler and more durable.

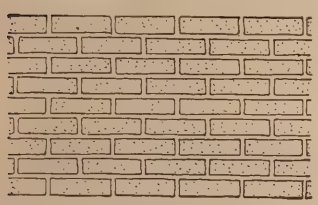


Fig. 1. Running or Stretcher

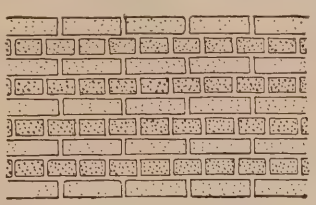


Fig. 2. English

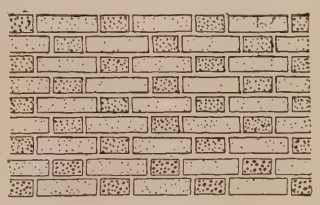


Fig. 5. Flemish

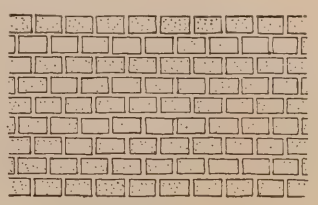


Fig. 6. Header

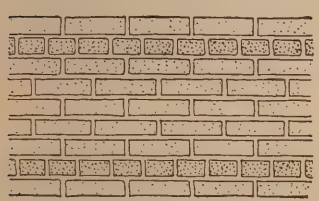


Fig. 3. Common

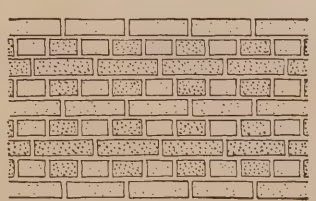


Fig. 4. English Cross or Dutch

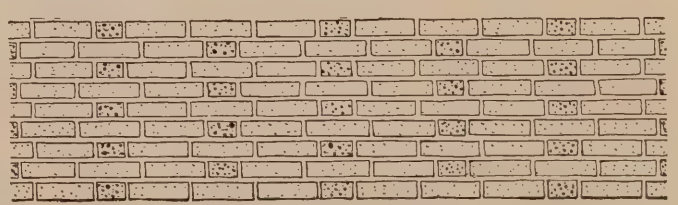


Fig. 7. Three-Stretcher Garden Wall

Examples of Face Brick Bonds



A. F. B. A. Six-Room House, No. 102
As built at Atlanta, Georgia



A. F. B. A. Six-Room House, No. 622
As built at Greenville, S. C.

For further details and literature, write to: AMERICAN FACE BRICK ASSOCIATION, 130 North Wells St. Chicago, Ill.

40 YEARS EXPERIENCE IN MAKING BRICK

BELDEN BRICK

Made by

THE BELDEN BRICK CO.

CANTON, OHIO

PRODUCTION 75,000,000 BRICK ANNUALLY

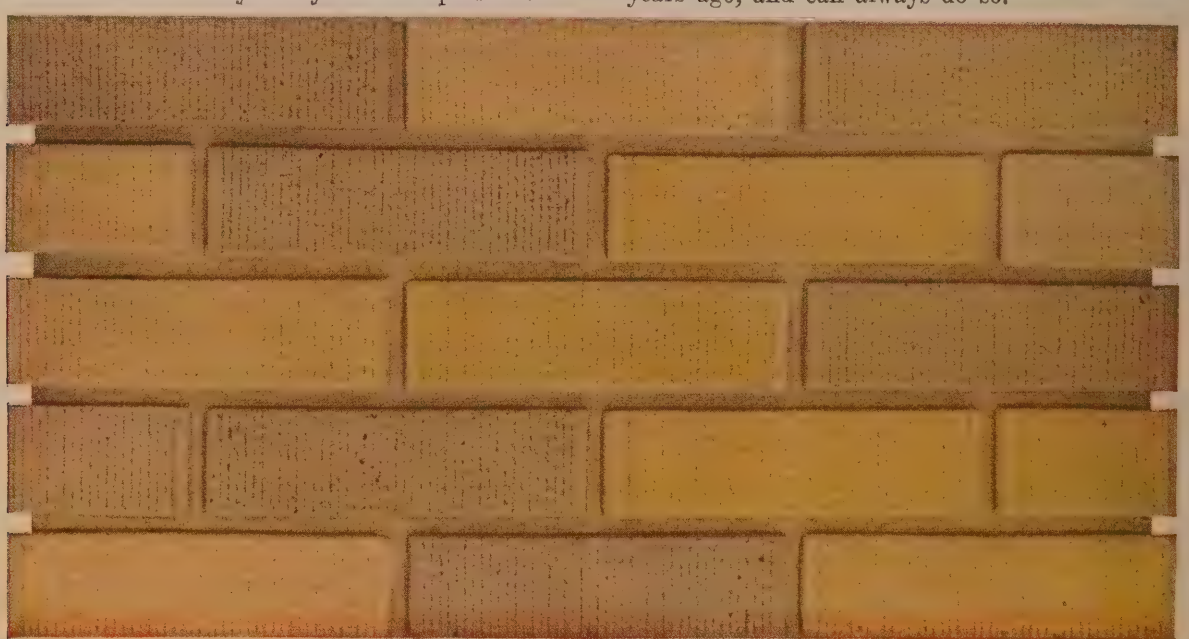


NO. 2—BLEND MINGLED, CHOCOLATE JOINT

The selection of Face Brick for a home is one of the most important decisions the building contractor and home owner are required to make. On the brick selected depends very largely the appearance of the finished house. Mistakes cannot be remedied once the bricks are in the wall—therefore *choose wisely.*

Do not be too greatly influenced by the cost of brick per 1,000—the best is nearly always the cheapest in the end and it costs just as much to lay poor bricks as good ones. Show your customer the cost of brick *in the wall.* That is the right way to compare the cost of Belden Brick with inferior bricks.

Bear in mind, also that additions are frequently made to homes and be sure that you buy brick which can be matched at any future time. We are frequently called on to furnish Belden Brick to match bricks we sold years ago, and can always do so.



NOS. 85 to 89—MINGLED NATURAL, RAKED JOINT

For further details and literature, write to: **THE BELDEN BRICK CO., Canton, Ohio**

40 YEARS EXPERIENCE IN MAKING BRICK

BELDEN BRICK

Made by

THE BELDEN BRICK CO.

CANTON, OHIO

PRODUCTION 75,000,000 BRICK ANNUALLY



NOS. 100 to 106F—MINGLED RED, RAKED JOINT

To develop the color ranges, textures and perfection in form and size that you find in Belden Brick requires experience as well as superior clays and the most modern equipment. Belden Brick have been made for 40 years and the resulting quality is yours without additional cost. An annual production in excess of 75,000,000 Face Brick means prompt shipment and the lowest price consistent with high quality.

The panels shown on this page and opposite page are merely a few examples of the unlimited shades and textures obtainable in Belden Brick. We can furnish Belden Brick in any Straight Shade, or Mingled Shades, and in any desired texture.

Write us for name of the dealer who handles Belden Brick in your territory. You will find him a helpful man to know, and to confer with regarding your Face Brick requirements. He can tell you the kind of bond and mortar that will look best with brick of various shades and textures and can offer suggestions that will result in beautiful and harmonious masonry—masonry that will be a credit to yourself and a source of satisfaction to your customers for all time to come.



NO. 22F—CHOCOLATE RAKED JOINT

For further details and literature, write to: **THE BELDEN BRICK CO., Canton, Ohio**

Canton Brick & Fireproofing Company

New Philadelphia OHIO

DEALERS

CHICAGO, ILL.:
Reiner Material Co.,
5812 So. Robey St.

DETROIT, MICH.:
Puritan Brick & Tile Co.,
710 Farwell Bldg.

NEW YORK, N. Y.:
O. W. Ketcham & Co.,
130 W. 42nd St.
Entwisle & Co.,
2 W. 45th St.

PHILADELPHIA, PA.:
Excelsior Brick & Steel Sales
Bankers Trust Bldg.

BOSTON, MASS.:
Parry Brick Co.,
77 Summer St.

KANSAS CITY, MO.:
Union Material & Supply Co.

DEALERS

ATLANTA, GA.:
B. Mifflin Hood Brick Co.

CLEVELAND, OHIO:
Mars Co.,
Keith Bldg.

COLUMBUS, OHIO:
Howard Building Service Co.,
20 So. 3rd St.

PITTSBURGH, PA.:
A. Q. Starr,
300 Brushton Ave.

BUFFALO, N. Y.:
Globe Plaster Co.,
319 No. Clinton St.

MINNEAPOLIS, MINN.:
Twin City Brick Co.

MILWAUKEE, WIS.:
Milwaukee Face Brick Co.,
Second St.

PRODUCTS

"Velve-Tex"

So trade named because of the soft velvety appearance that a wall will have when built of these face brick. This is a horizontal Matt Texture brick produced and marketed in a full range of shades from the darkest gunmetal and blues to clear, bright reds. Every individual shade blends perfectly with the other and the mass gives a perfect autumn effect. "Velve-tex" is particularly adaptable for practically any design of home.

"Robertsville Reds"

Produced in solid shades in dark, medium and light tones. The texture is vertically scored and uniform throughout on the face and ends. The corners and edges are all square and true. The uniformity in size and shade makes these bricks adaptable for every kind of brick work, whether it be for foundations or complete home.

"Midvale Buffs"

Produced in uniform shades in buff color, not the so-called ivory buff, but a rich cream. The texture is vertically scored, regular in size and absolutely true and straight mechanically. The soft shadows given by the light scoring absolutely gets away from and glaring effect, so they meet the needs of the home builder as well as the apartment or business block builder.

"Midvale Ironspots"

The peculiarity of the shades produced in the Ironspots gives to the builder a brick that is distinctive. They can be furnished in light brown, medium and light orange tones. As is the case of the Midvale Buffs, they are vertically scored, regular in size and straight mechanically. The specks on the surface of the brick are natural iron fused from the clay itself.

"Newcomerstown Buffs"

Produced in smooth, vertical and matt textures and in uniform shades. These bricks have just a touch of grey in the color that gives somewhat of a drab effect. The requirements of a smooth brick are uniformity of size, sharp edges and corners and an absolute smooth surface and we have it here in Newcomerstown Buffs. Readily adaptable for both interior and exterior use.

"Newcomerstown Greys"

Produced in smooth, vertical and matt textures. The grey color is obtained by the addition of pure, finely ground manganese ore to fire clay. They all come in a medium grey shade, meeting the requirements of the builder that desires something between the reds and the buffs. The smooths meet the requirements for both exterior and interior use.

"Georgia Whites" and Georgia Ivories"

A distinctive impervious face brick produced to meet the growing demand for lighter shades. This is suitable for exterior facing, as well as interior lining.

Canton
Brick & Fireproofing
Company

New Philadelphia
OHIO



A House Like This Sells Face Brick For You

One job as handsome as this Canton Quality home will bring in any number of orders. A Canton job is your best salesman, your best advertisement, because Canton Brick have the strong distinctive beauty that interests builders.

And the quality—tested by age and weathering—is as excellent as the appearance. Your customers will congratulate you for stocking a real brick when you stock Canton Quality Face Brick.

Look forward to next spring and count on Canton Quality Face Brick to increase your brick business.

Think of the present and start heavy Canton Brick sales on the way now. Increase your turnover without increasing stocks—depend on Canton speedy and reliable service. Don't put off profits! Write today for samples and prices.

Shipping Facilities

In our six plants located in the States of Ohio and Georgia we produce 500,000 bricks per day, of all shades, textures and designs.

DEALERS DESIRED **DEALERS DESIRED**

For further details and literature, write to: **THE CANTON BRICK & FIREPROOFING CO.** New Philadelphia, OHIO

Claycraft Brick



Manufactured by

The Claycraft Mining & Brick Co.

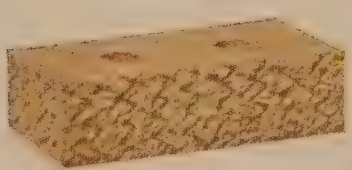
COLUMBUS, OHIO



Vertical Scored—Mingled Shades



Matt—Red Mingle



Gray "Raglan"



Smooth Buff



Matt Gray

BEAUTY AND DISTINCTION WITH QUALITY AND SERVICE

Recommend CLAYCRAFT BRICK to all discriminating Architects, Builders and Buyers.

Claycraft Brick

is made in many different shades and textures. It affords an excellent medium for architect and builder to create exterior walls in keeping with all types of architecture.

Buff and Gray Face Brick

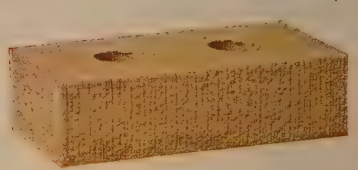
A high grade fire clay is used in the manufacture of this line, ranging in shades from light to dark, and sold either in a straight shade or a mingle. An impervious Face Brick in both Smooth and Rough Textures.

Red and Brown Face Brick

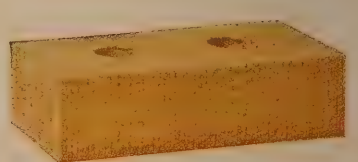
An attractive line of all-shale Face Brick in beautiful shades of Red, Brown, Green and Gun-Metal. Made in Matt Texture and Vertical Scored.

"Old English"

A Smooth Red and Brown Mingle similar to brick used in early colonial days and especially adapted to that type of architecture.



Vertical Scored Buff



Vertical Scored Gray



Smooth Gray

SOLD THROUGH ESTABLISHED DEALERS EVERYWHERE

Names and addresses of nearest distributors given upon request.

For further details and literature, write to: **THE CLAYCRAFT MINING & BRICK CO.,** 9th Floor, Hartman Bldg., Columbus, Ohio

Alliance Multi-Color Ruff-Face Brick

MANUFACTURED BY

THE ALLIANCE BRICK COMPANY

ALLIANCE, OHIO



Alliance Multi-Color Ruff-Face Brick No. 76

Alliance Multi-Color Ruff-Face Brick No. 76 excel all other brick as to beauty and harmony of blend and coloring. The chromatic scale of colors runs through their beautiful rough-texture faces, most of the individual brick showing on the face of each brick *three* or *four* or *more* of the seven primary colors or their shades—gun-metals, wines, chocolates, browns, ox-blood reds, buff tones and multi-colors.

These brick are made of Ohio shale of the highest grade. They are thoroughly vitrified, permanent in color, standard in size—right in every characteristic. They provide a richness and a dignified beauty that is causing them to be used in many of the finest homes and commercial buildings in America.



The Seven Types of Brick in Alliance Multi-Color Ruff-Face Brick No. 76

The seven brick above illustrated, represent the seven distinct types of brick composing the panel above. Study these two illustrations. They tell of wonderful possibilities for the architect and builder. The dark wine or gun-metal brick at the right of above seven brick is also sold as a straight shade—*Alliance Gun-Metal Ruff Brick No. 75.* The red brick at the left is sold as a straight red shade—*Alliance Red Ruff Brick No. 72.*

Our Alliance Ruff-Face Hollow Building Tile is a most excellent and most economical material for facing buildings of various types. See following pages for description of our Darlington Grays and Browns.

For further details and literature, write to: **THE ALLIANCE BRICK CO., 31 Review Building, Alliance, Ohio**

My ain fireside, my ain fireside,
O, cheery's the blink o' my ain fireside
My ain fireside, my ain fireside
O, there's naught to compare wi' ain's ain fireside.
—Elizabeth Hamilton.



Alliance Multi-Color Ruff-Face Brick Mantel No. 8

Height—From floor to ceiling. Width—86 in. Opening—31 in. high x 35 in. wide. Hearth—Tile, 1 in. x 4 in. x 4 in. Projection from wall, as desired.

All dimensions can be varied, to meet requirements. Brick are rough face and hearth tile smooth. Mantel includes all plain and special brick for facing and back-wall and sides of openings, all brickettes or tile for hearth and under fire (no wood shelf or iron work), all properly packed in barrels and delivered f. o. b. Alliance, Ohio.

A "Setting Drawing," showing floor plan, elevations, correct flue design, and complete and definite scaled drawings for erection, is furnished with each mantel.

Multi-Color fireplaces are artistic, correctly designed, right in every particular—They never disappoint.

The living room fireplace weaves a spell of social contentment and homey ease. Its restful influence is one of the reasons why this room is the real unit of the home. If so desired, above design can be furnished without the portion above the shelf.

See next two pages for description of our Darlington Grays and Browns.

For further details and literature, write to: **THE ALLIANCE BRICK CO., 31 Review Building, Alliance, Ohio**

Darlington Smooth Gray Face Brick

MANUFACTURED BY

THE ALLIANCE BRICK CO., Alliance, Ohio

Three Factories—Two at Alliance, Ohio, and One at Darlington, Pennsylvania



Darlington Smooth Grays, illustrated above, are made of the highest grade of Pennsylvania fire clay. They are a warm light or whitish gray, with manganese spots. They are thoroughly vitrified. They are mechanically perfect, and their color and character are permanent. They will not absorb dirt. Wherever these brick are used they give character and distinction to the structure. They are pleasing and permanent.

Darlington Browns and Golden Browns. In addition to Grays our Darlington factory (No. 3) is producing a line of smooth, flashed Brown and Golden Brown, manganese-spotted brick, of quality and character equaling Darlington Grays.

See your dealer. If he cannot show you samples and quote, write direct.



Shade 24



Shade 25



Shade 26

For further details and literature, write to: **THE ALLIANCE BRICK CO.** 31 Review Building Alliance, Ohio

Darlington Ruff-Texture Gray Face Brick

MANUFACTURED BY

THE ALLIANCE BRICK COMPANY, Alliance, Ohio

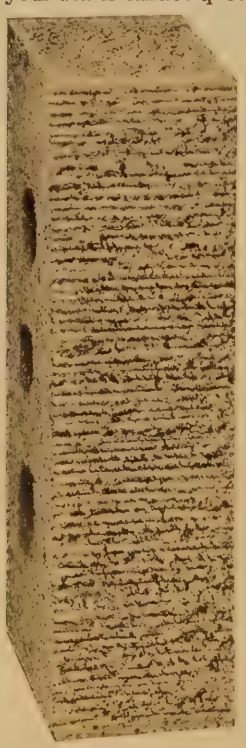
Three Factories—Two at Alliance, Ohio, and One at Darlington, Pennsylvania



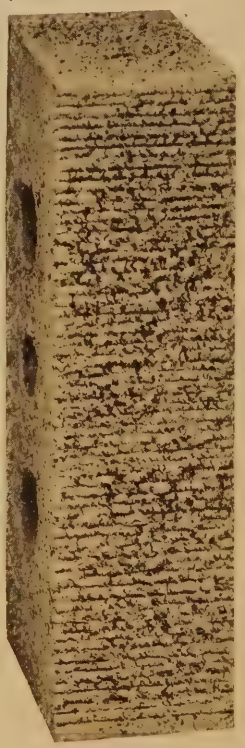
DARLINGTON RUFF-TEXTURE GRAYS, illustrated above, are a beautiful soft gray, manganese-spotted brick. Their light gray color and serrated texture give them the appearance of cut stone. In addition to gray, these brick are also produced in Browns and Golden Browns, with manganese spots. These are wonderful brick for residences and other high grade buildings.

In addition to our Darlington Grays and Browns, our two factories at Alliance, Ohio, manufacture lines of gun-metals, wines, chocolates, browns, ox-blood reds, buff tones and multicolors. We also manufacture a splendid building material in our Alliance Ruff-Texture Hollow Building Tile—very suitable for low cost buildings.

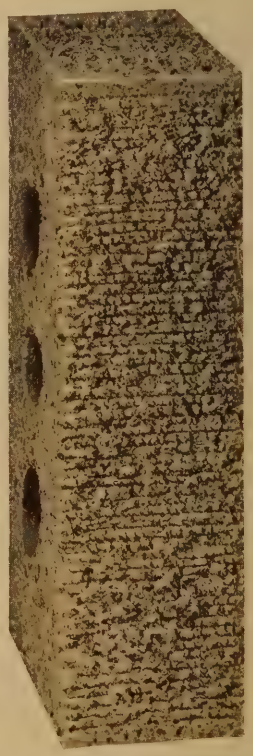
If your dealer cannot quote, write us direct.



Shade 34



Shade 35



Shade 36

For further details and literature write to: **THE ALLIANCE BRICK CO.** 31 Review Building Alliance, Ohio

CONCO CLAY PRODUCTS

Sales Offices
CHICAGO
INDIANAPOLIS
DUBUQUE

H. D. CONKEY & COMPANY
MENDOTA, ILL.

Brick Plant
DANVILLE, ILL.

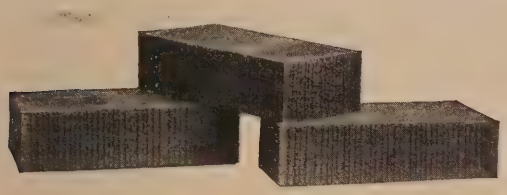
Tile Plant
ST. ANNE, ILL.

Products

This company, with associate companies at Danville and St. Anne, Ill., produces Face Brick, Common Brick, Drain Tile and Hollow Tile. Also Mortar Colors. Send for literature giving full particulars of our various products.

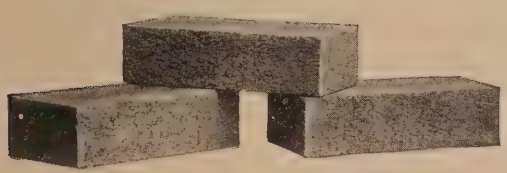
Write for Description of Shades or Samples

We will be glad to send building contractors on request a complete list of our various brick, giving names, numbers and color ranges.



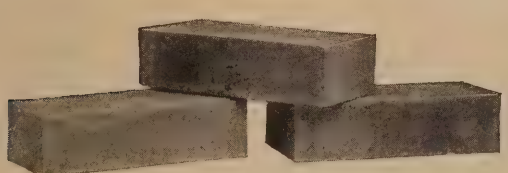
TUXEDOS Rough Vertical Texture

Burned from the purest deep vein Danville Shale. A brick perfect in form and with a beautiful range of colors. Five shades in Flat Set Brick, ranging from a rich, dark brown to light chocolate. Five shades in Edge Set Brick, ranging from clear red to dark red, with flashed edge.



PATRICIANS Matte Texture

A medium, rough textured brick. Every brick a perfect brick. Warm in tone and blend well, making a most attractive wall. Three shades in Flat Set Brick, ranging from dark brown to medium and light chocolate. Three shades in Edge Set Brick, ranging from clear red to red center with dark border.



COMMUNITIES Sanded Smooth

A beautiful, smooth brick made of pure Danville Shale and burned to deep, rich colors. No. 10—hard burned—dark chocolate or red center with black or brown border. No. 20—medium red shading to darker red. No. 30—clear red, with only slight variations in color.

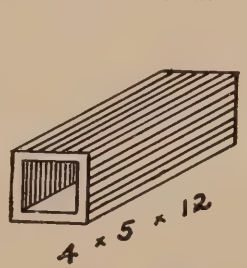


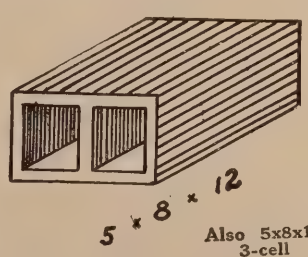
DANVILLE PEACOCKS

If you want something striking in the way of color effect—Danville Peacocks—a charming blend of greens and reds. Rough texture. Uniform size. Every brick a perfect brick.

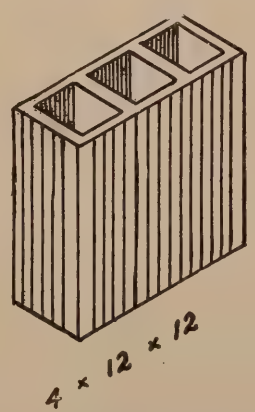
Hollow Tile

We make a full line of Hollow Tile—partition tile, floor tile and back-up tile in all standard sizes—some of the sizes illustrated below.

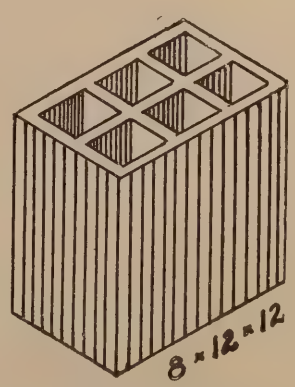




Also 5x8x12 3-cell



ALSO 5x12x12 3x12x12 and 6x12x12



ALSO 10x12x12 and 12x12x12

1½" and 2" SPLIT FURRING

Drain Tile

We also manufacture Drain Tile. Write for full information on any of our products in which you may be interested.

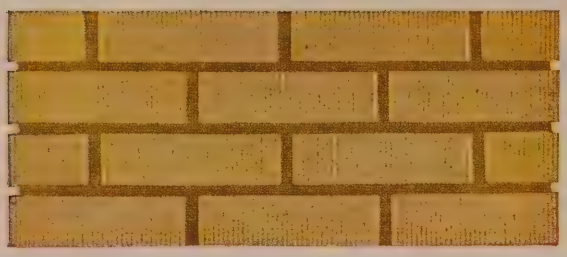
For further details and literature, write to: **H. D. CONKEY & COMPANY, Mendota, Ill.**

McARTHUR—The Brick Beautiful

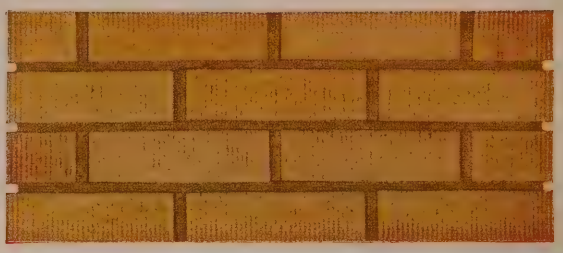
Made by

THE McARTHUR BRICK COMPANY

McArthur, Ohio



No. 60—Light Buff Vertical



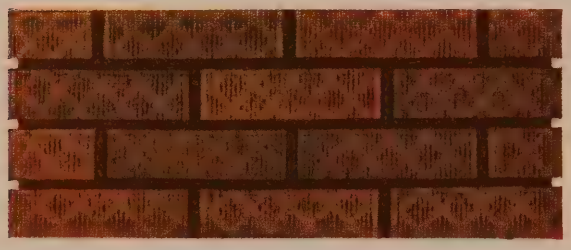
No. 65—Golden Buff Vertical



No. 70—Mingled Buff Vertical



No. 503—Light Brown Vertical



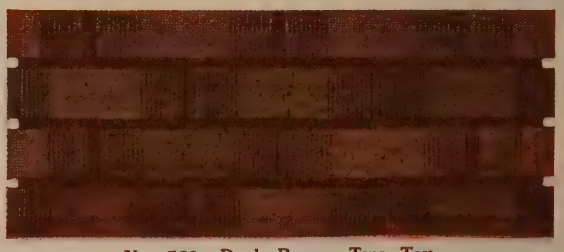
No. 578—Mingled Brown Diamond Tex



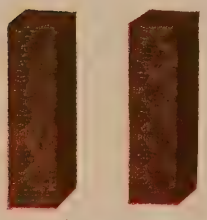
No. 505—Mingled Brown Vertical



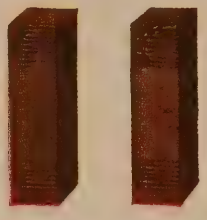
No. 575—Light Brown Diamond Tex



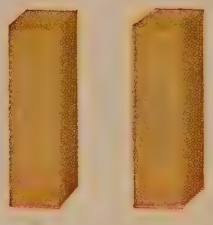
No. 560—Dark Brown Two Tex



No. 570
Diamond Tex



No. 565
Two Tex



No. 50
Smooth Buff



No. 502
Dark Brown Vertical

Plants at McArthur, Ohio, and Hamden, Ohio—both on Hocking Valley Railway.
Capacity—150,000 bricks, daily.

Products—Shale Face Brick in all colors. Fire Clay Face Brick in buff shades.
Distributors in all principal cities.

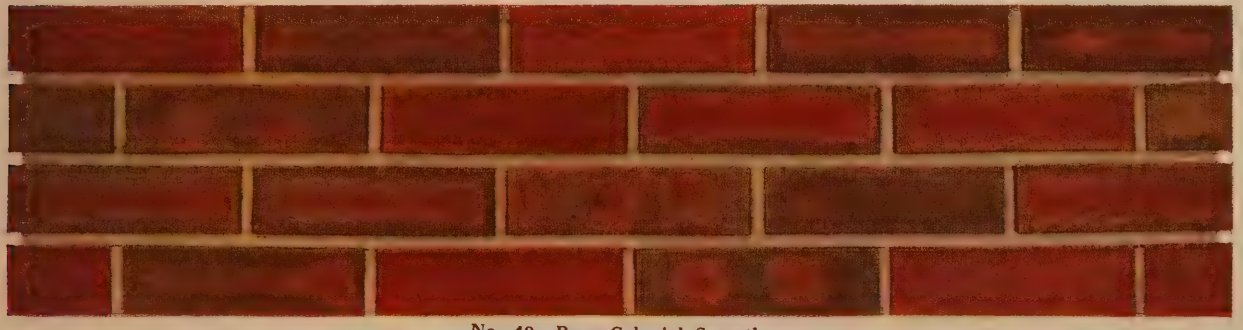
For further details and literature, write to: **THE McARTHUR BRICK CO., McArthur, Ohio**



No. 240—Olde English Mission



No. 340—Olde English Rug



No. 40—Rose Colonial Smooth



No. 110—Mingled Brown Mission

The Ironclay Brick

"It washes its own face"

Manufactured by

THE IRONCLAY BRICK COMPANY

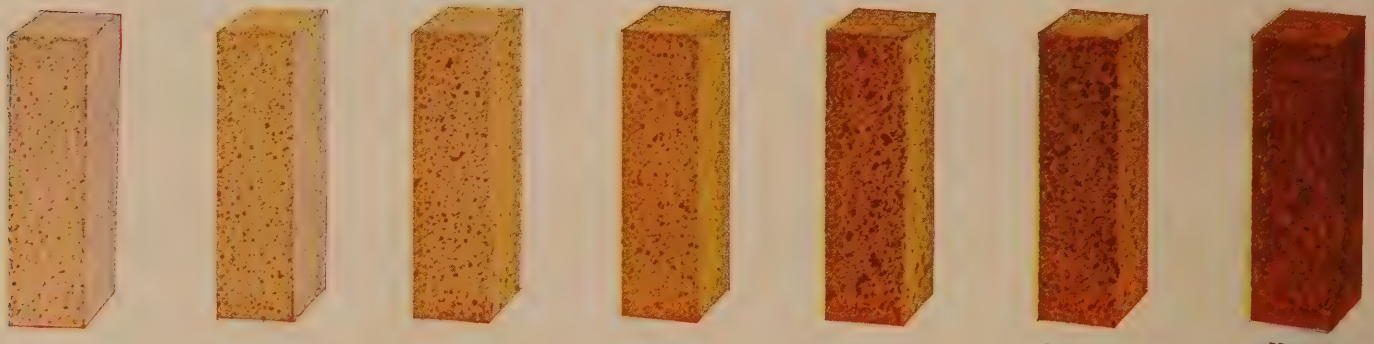
Columbus, Ohio

Distributors of Ironclay Brick in the Following Centers:

ATLANTA, GA.—B. Mifflin Hood Brick Co., Candler Bldg.
BALTIMORE, MD.—O. W. Ketcham, Baltimore American Bldg.
BOSTON, MASS.—Parry Brick Co., 123 Summer St.
BUFFALO, N. Y.—John H. Black Co., 505 Delaware Ave.
CHATTANOOGA, TENN.—Hibbler-Barnes Co., 700 East Tenth St.
CHICAGO, ILL.—S. S. Kimbell Brick Co., Chamber of Commerce Bldg.
CINCINNATI, O.—The Moores-Coney Co., 111 East Fourth St.
CLEVELAND, O.—The R. L. Queisser Co., Schofield Bldg.
DETROIT, MICH.—The Sterling Brick Co., Wabash Ave.
DULUTH, MINN.—Duluth Builders Supply Co., 503 Alworth Bldg.
FLINT, MICH.—Flint Coal and Masons' Supply Co.
GRAND RAPIDS, MICH.—S. A. Morman & Co.
INDIANAPOLIS, IND.—Allied Coal & Material Co., Odd Fellows Bldg.
KNOXVILLE, TENN.—Chandler & Company.
MILWAUKEE, WIS.—Wisconsin Face & Fire Brick Co., Caswell Block
MINNEAPOLIS, MINN.—Twin City Brick Company.
NEWARK, N. J.—Tomkins Bros., 48 Passaic St.
NEW ORLEANS, LA.—Acme Brick Co.
NEW YORK, N. Y.—O. W. Ketcham, 130 W. 42nd St.
OMAHA, NEB.—Sunderland Bros. Company.
PHILADELPHIA, PA.—O. W. Ketcham, 125 No. 18th St.
PITTSBURGH, PA.—Martin Brick Co., Chamber of Commerce Bldg.
PROVIDENCE, R. I.—P. L. Monroe & Sons.
ROCHESTER, N. Y.—Theodore H. Swan, 446 Powers Bldg.
ST. PAUL, MINN.—Twin City Brick Company.
SYRACUSE, N. Y.—The Paragon Plaster Co.
UTICA, N. Y.—American Hard Wall Plaster Co.
WASHINGTON, D. C.—O. W. Ketcham.



Color No. 38



No. 26 No. 30 No. 33 No. 35 No. 38 No. 40 No. 45

THE IRONCLAY BRICK are unique in character, color and composition. They are the product of a fine grade of fire-clay containing two non-magnetic elements of iron. Being made from fire-clay without any artificial ingredients whatever, Ironclay Brick will stand a heat that will melt iron or convert marble to dust.

We manufacture *Standards, Romans, Normans* and *Shapes* in *seven different colors* ranging from an old ivory to a deep bronze. No other Flashed Brick on the market approximates the Ironclay in delicacy and beauty of color.

An Ironclay Brick is in no way influenced by climatic changes and being only semi-vitreous will remain free from stain. The rain keeps the surface clean and bright, or in other words

"IT WASHES ITS OWN FACE"

Ironclay Brick are absolutely free from all elements that will decompose and produce a discoloration on the face. For more than a quarter of a century the Ironclay Brick has been the standard of quality throughout the country for Flashed Brick.

Samples and prices can be secured from our dealers in all the principal cities of the country, or you may address us direct.

For further details and literature, write to: **THE IRONCLAY BRICK COMPANY, Columbus, Ohio**

PENN FACE BRICK

Made by

PENN BRICK CORPORATION

Bradford, Pa.

Products

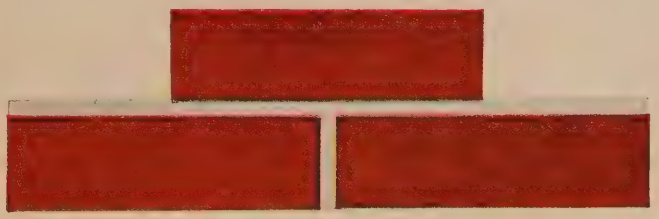
This company produces Face Brick exclusively, in the finishes and shades illustrated below. Each brick is true to form and perfect in finish and color, our careful methods of manufacture and inspection of the finished product insuring that none but perfect brick are shipped to our customers.

Red Brick Exclusively

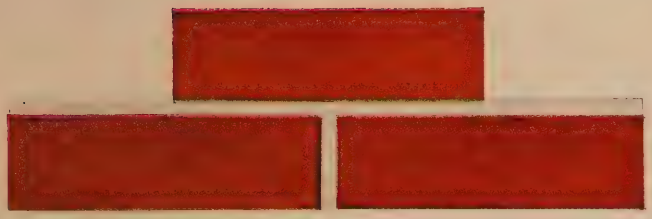
The clays of Bradford, Pennsylvania, where our plant is located, are unsurpassed for the production of high grade Face Brick in various shades of red. Laid up in mortar to contrast pleasingly with the warm tones of the brick. As illustrated below, Penn Face Brick produce a wall of exceptional beauty. Our smooth face brick was recently used in the construction of five school houses in New York City.

Distribution

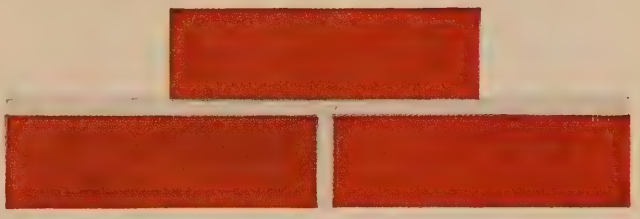
Penn Face Brick are sold through dealers in Building Materials. If your local dealer is not already one of our distributors, send us his name and we will arrange to supply you through him. Samples of our brick will be gladly sent to building contractors on request. State shade and finish you prefer when writing.



No. 22—Smooth Face



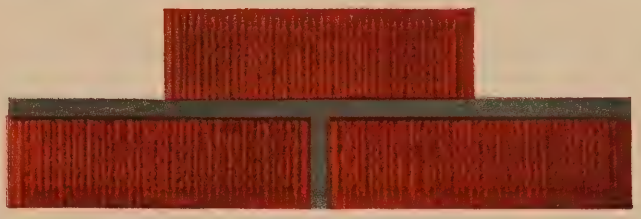
No. 23—Smooth Face



No. 24—Smooth Face



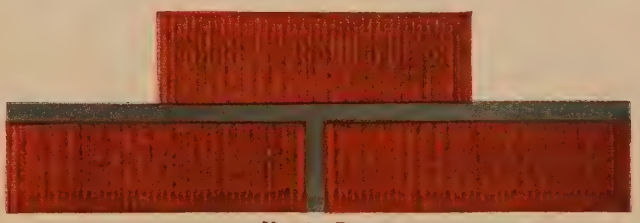
No. 12—Matts



No. 2—Rugs



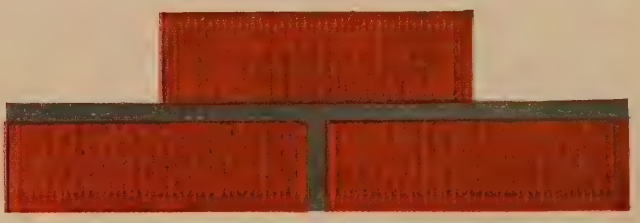
No. 13—Matts



No. 3—Rugs



No. 14—Matts



No. 4—Rugs

"METRO" FACE BRICK

Produced By

THE METROPOLITAN PAVING BRICK CO.

CANTON, OHIO

"Metro" Face Brick are manufactured from pure shale.

Colors produced are permanent—they are burned in. They are standard in dimensions.

Each brick blends with the other in harmonious tones.

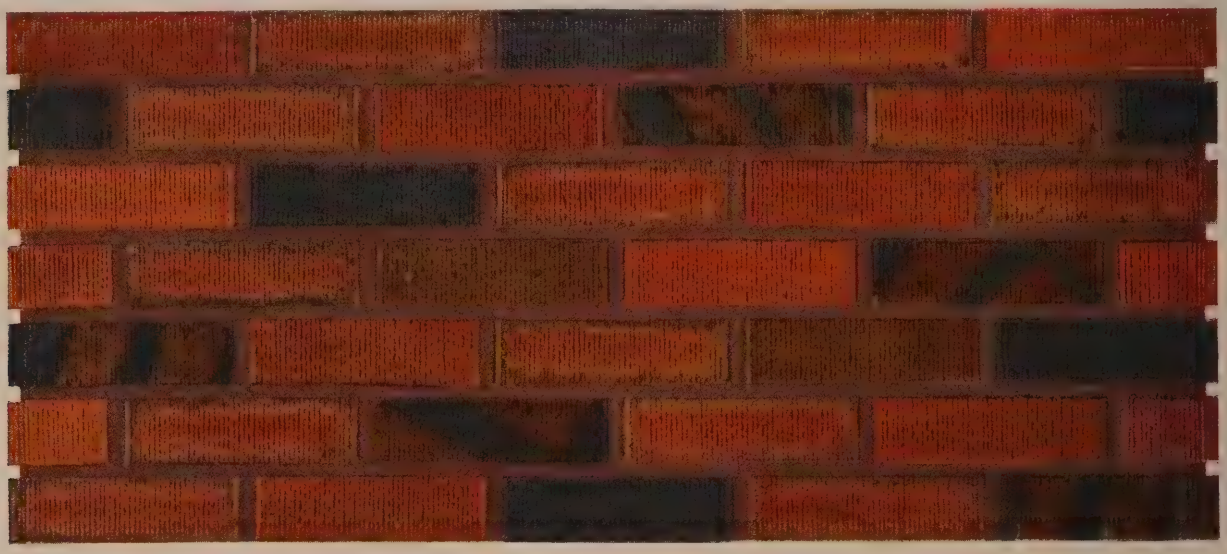
"Metro" Brick are mechanically perfect—therefore easy to lay.

Any shade, or mixture of shades can be supplied, by giving shade number, or numbers, shown under individual brick or panel displayed.

We ship orders promptly. We give SERVICE.

Samples, etc. furnished gladly upon request.

"Metro" Brick can be purchased through your local dealer. Desirable agencies still available.



FULL RANGE MINGLED VERTEX—Shades Nos. 20F to 80F.

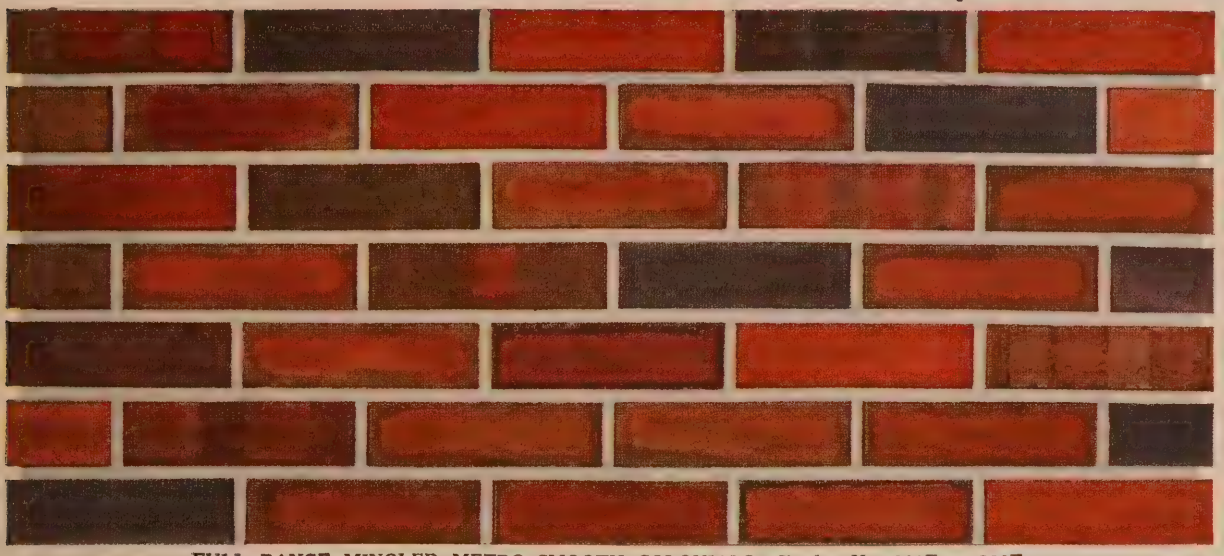
☛ BEFORE BUILDING, WRITE FOR FREE SAMPLE OF "METRO-BRICK", STATING SHADE NUMBERS THAT INTEREST YOU.



SHADE NO. 20-F | SHADE NO. 30-F | SHADE NO. 40-F | SHADE NO. 50-F | SHADE NO. 60-F | SHADE NO. 70-F | SHADE NO. 80-F

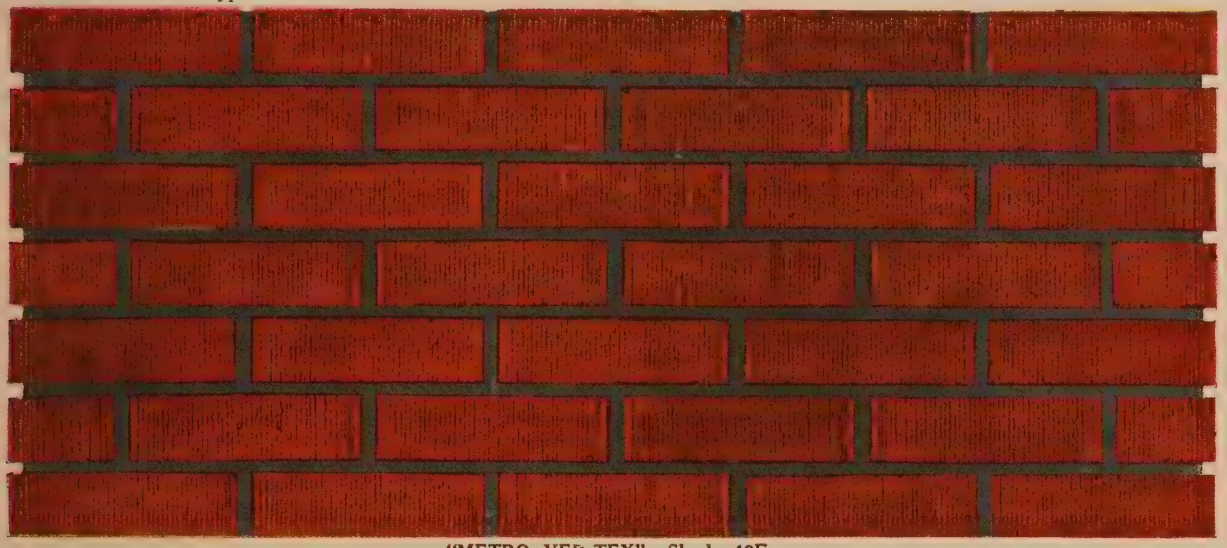
☛ For further details and literature, write to: **THE METROPOLITAN PAVING BRICK CO., Canton, Ohio**

"METRO" FACE BRICK (Continued)



FULL RANGE MINGLED METRO SMOOTH COLONIALS—Shades No. 230F to 280F

These brick are particularly adaptable to produce English or Colonial effects. The markings, and blend of color give the weathered effect so desirable on this type of work.



"METRO VER-TEX"—Shade 40F.

This is the most popular brick for the modern and permanent home. The red in this brick cannot be equalled. This shade is distinctive and must be seen to be appreciated.



"METRO MAT-TEX" FULL RANGE MINGLE—Shades No. 120F to 180F.

Architects and those with discriminating tastes favor this texture. It is especially desired for the highest type of work, and for large operations such as schools, public buildings, etc.

For further details and literature, write to: **THE METROPOLITAN PAVING BRICK CO., Canton, Ohio**

FACE BRICK FOR ALL PURPOSES

Supplied By

STERLING BRICK COMPANY

5401-31 Wabash Avenue

DETROIT, MICHIGAN



MAIN SALES ROOM

We carry in stock all textures and shades of Face Brick. They range in shade from Creams to Gun Metals.

We are prepared to supply any brick requirements throughout Wayne, Monroe, Macomb, Washtenaw, St. Clair, Oakland and Lenawee counties, Michigan.

All inquiries by mail promptly attended to. Our representative will render service to any builder in the above territory.

Our shipping facilities enable us to render prompt delivery on all car load orders of Face Brick.

WE REPRESENT THE FOLLOWING BRICK MANUFACTURERS IN TERRITORY MENTIONED ABOVE:

The Alliance Clay Products Co., Alliance. Ohio
The East Liverpool Brick Mfg. Co., East Liverpool, O.
The Hanover Brick Company, Columbus, Ohio
The Ironclay Brick Company, Columbus, Ohio
Kittanning Brick Company, Kittanning, Pa.
The McArthur Brick Company, McArthur, Ohio
Paterson Fire Brick Company, Clearfield, Pa.
Penn Brick Corporation, Bradford, Pa.
The Toronto Fire Clay Company, Toronto, Ohio

For further details write to: **STERLING BRICK CO., DETROIT, MICHIGAN**

Vall'e Matts and Vall'e Verticals

The Face Brick of Quality

Made by VALLEY VIEW BRICK CO., Cleveland, Ohio

Product

Our bricks are made from one of the best Ohio shales and are manufactured by the most approved methods with modern machinery. Compare them with any brick you like—you will find none better anywhere.

Colors

Vall'e Face Brick can be furnished in selected shades or in full range of color which includes various tones of red; light, medium and dark browns; greens and gun metals.

Textures

Two textures are made—Matt and Vertical. Both of these textures are uniform as to design.

Shipping Facilities

Located within the city switching limits of Cleveland, adjacent to the tracks of the Baltimore & Ohio Railroad, our plant is admirably situated for prompt shipment. We can ship brick out of Cleveland on any railroad desired.

Capacity

In our brick sheds we carry a stock of approximately 4,000,000 finished brick ready for immediate shipment.

Principal Uses

While used in all kinds of building construction—industrial, commercial and residential—our bricks are particularly suited for homes. The range of colors and the two finishes—Matt and Vertical—enable the contractor to make a selection that will be exactly suited to any type of dwelling.

Distributors

Vall'e Face Brick can be obtained from a dealer in building materials in most large cities. If we have no representative in your locality communicate direct with us.



Colonial Home of A. R. Bruggeman, Cleveland. George J. Johnson, Architect. Vall'e Matts Used.



Residence of C. W. Rampe, Cleveland. Howell and Thomas, Architects. Vall'e Matts Used.



Taylor Road School, Cleveland Heights. F. C. Warner, Architect. Vall'e Matts Used.

For further details and literature, write to: **VALLEY VIEW BRICK CO., Cleveland, Ohio**

WBC Brand Clay Products

Manufactured by

WESTERN BRICK COMPANY Danville, Illinois

Member, American Face Brick Association

Products

The WBC line covers a wide range of clay and shale products, including face brick and common brick.

Trade-Mark

WBC Face Brick has for many years had a wide distribution among dealers in the Middle West and has during the last few years been extensively used in the East and South. The line includes a variety of popular and distinctive surface textures in the buff, brown and red color ranges. The leading numbers are:

WBC Hammered Texture — Resembles the beautiful texture of hammered metals. It is a highly finished, mechanically perfect brick, suitable for both interior and exterior work. The face is so thoroughly impervious and the indentations so slight that rain will readily wash it clean, yet the texture is sufficient to deepen and soften the color. This texture is protected by basic patents. Made in every shade from light buff, through tans and reds to almost black.



WBC Hammered Texture

WBC Stippled Mixture—Another exclusive and distinctive WBC texture that has increased in popularity year after year. All grain and lines are eliminated, the texture consisting of small indentations that give a rich, velvety effect. The color range is complete, including every desirable shade.

WBC Veetex is a regularly scored, mechanically perfect, vertical texture brick, standard in every way. Produced in the brilliant reds and browns of the shale colors.

WBC Matte Texture—Similar to original textures or rough surface brick, but refined and highly developed. Made in the buff, tan and brown ranges. A big seller in the medium-price field.

WBC Empire—The charm of this texture lies in its variety and ruggedness. It is bold and gives a wonderful tone and depth to the red and brown colors. A very popular, medium-priced Face Brick.

WBC Cloisters have a smooth surface but are treated, in the process of manufacture, to eliminate all harsh glaze and to deepen and soften the color. Their quality, color effect and durability, together with their fair price, make them the best value for the cost. Long a favorite and a big seller. It is only through big production that this brick can be produced at its present price. Made in reds and browns. A big winner.

WBC Common Brick is sorted to three grades:

Dark Mediums — Thoroughly vitrified, with a low absorption, high crushing and cross breaking strength. Recommended for sewers, foundations, or any work where exceptional strength is required. Not selected for color but only for strength and absorption.

Red Mediums — A general purpose brick, suitable for any ordinary foundation or backing up work; an excellent brick for the dealer to carry in stock.

Light Mediums—Suitable for inside and back-up work only; not recommended or suggested where exposed to the weather.

Facilities and Service

It will be apparent from this listing of WBC products, that the Western Brick Company is in a position to be of special service to Contractors and Dealers. In the first place, the Company can supply all the clay products needed for a job—for foundations, for wall backing and for wall surface. In the second place, the wide range of WBC Face Brick, in colors, textures and price takes care of all the requirements for Contractor or Dealer.

The large production of the Western Brick Company—135,000,000 annually—means prompt service at all times; and the stability of the Company means consistency of production and the ability of the Contractor and Dealer to get the particular brick he wants, year after year.

More detailed information about WBC products will be gladly furnished to Contractors and Dealers requesting it.

For further details and literature, write to: **WESTERN BRICK COMPANY** Drawer No. 591 Danville, Illinois

HOOSIER HOLLOW GIANT BRIX

Made By

HOOSIER BUILDING TILE & SILO CO.

ALBANY, INDIANA

☞For Hoosier Stucco Blox and Glazed Tile (See pages 64 and 65)

Consider These Advantages of Building with Hoosier Hollow Giant Brix

Most economical of permanent home building materials. Costs less than frame.

Size of Unit—5″x8″x12″, or the equivalent of 6 ordinary bricks, yet weighing only half as much because of the hollow construction. Wall goes up much more quickly with corresponding saving in labor cost. Made also in 5″x12x″12″ (equal to 9 ordinary bricks) for 12″ walls.

Easy to Lay—Use ordinary mortar (waterproofed) colored with any shade of mortar color, or plain white as preferred.

Crushing Strength—Many times greater than required by any building code.

Color—Rich Velvet-Brown—light, medium and dark shades. Permanent, non-fading.

Paint—None needed—Hoosier Hollow Giant Brix are absolutely impervious to moisture.

Dry Wall—Because of the air spaces and flint-like hardness of the Brix. Moisture cannot pass through the Brix and if mortar is spread on inner and outer edges leaving a 2-inch space in center there will be no capillary attraction through mortar.

Heat Insulation—No insulating material needed when you build with Hoosierr Hollow Giant Brix—the dead air spaces provide the most efficient heat insulation known. A cool house in summer and one that can be economically heated in winter.

Insurance—Lower rates because of fireproof construction.

Plaster Base—None needed. Plaster is applied directly to inside face of wall without requiring furring strips or lath.

Openings—Hoosier Hollow Giant Brix fit snugly round any opening—no loss of time and labor in fitting—no wasted material. Special corner Brix, window jambs and clotures. See illustrations on page 65 which apply to Hoosier Hollow Giant Brix as well as to Hoosier Stucco Blox.

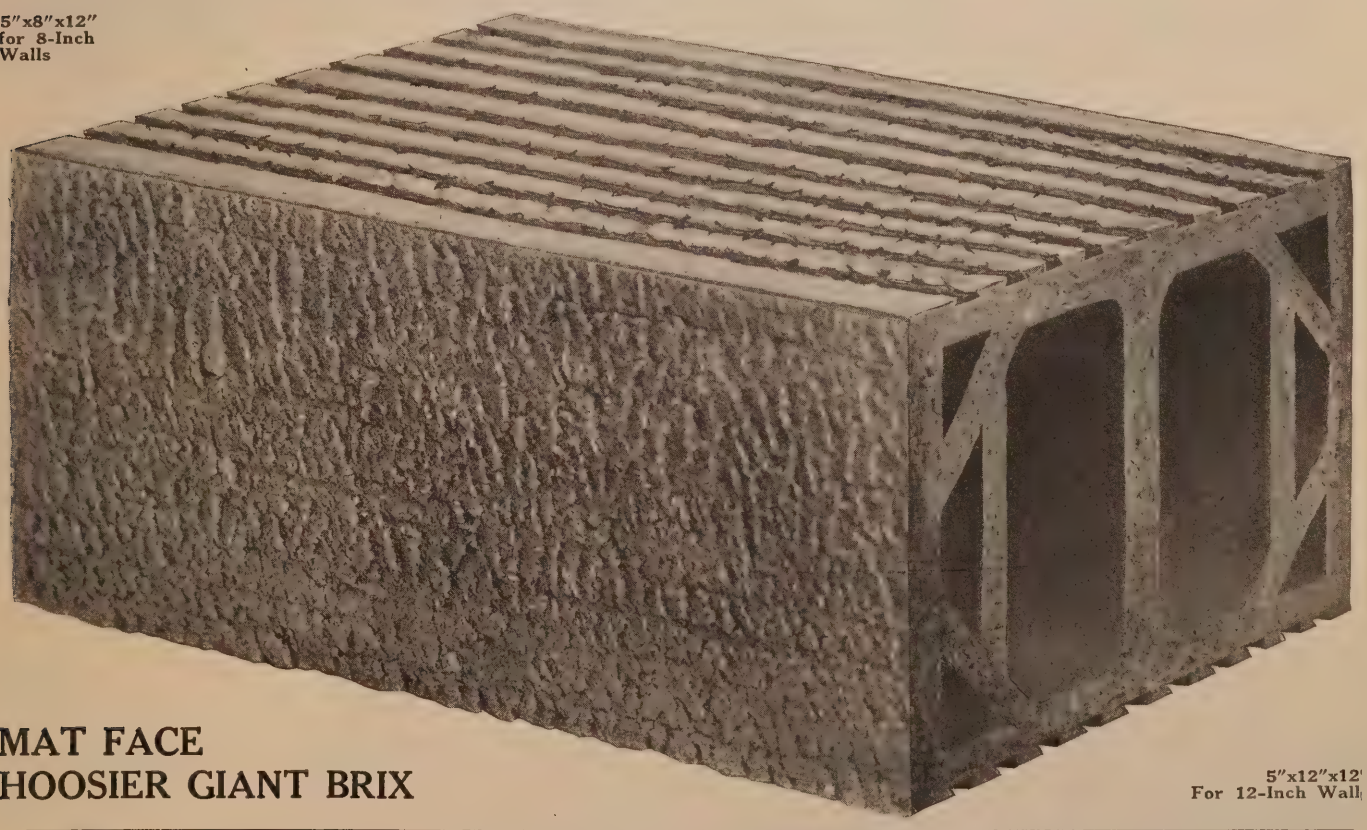
Joists—Four-inch shoulder provided for them to rest on.

TO SUM UP—HOOSIER HOLLOW GIANT BRIX MAKE A WALL FINISHED ON THE OUTSIDE AND READY FOR PLASTER ON THE INSIDE, REQUIRING NO SIDING, SHEATHING, BUILDING PAPER, STUDDING, LATH OR PAINT.

Cost is about equal to that of frame construction (or a little less) and fully 30 per cent less than for ordinary brick.

Samples—We are always glad to send samples of our Hoosier Stucco Blox and Hoosier Hollow Giant Brix to building contractors who are not acquainted with these better building materials. The savings resulting from their use are so considerable that you should lose no time in getting these facts.

5″x8″x12″ for 8-Inch Walls



MAT FACE
HOOSIER GIANT BRIX

5″x12″x12
For 12-Inch Wall

For further details and literature, write to: **HOOSIER BUILDING TILE & SILO CO., Albany, Ind.**

Permanent Homes Built of Hoosier Giant Hollow Brix



"THE AYDLETT" 5 Rooms and Bath
Size 24 ft. 9 in. wide x 36 ft. deep
For plans and details see page 1013



"THE ALPENA" 5 Rooms and Bath
Size 44 ft. wide x 28 ft. deep
For plans and details see page 1014



"THE ABILENE" 6 Rooms, Bath and Dining Room
Size 25 ft. wide x 29 ft. deep
For plans and details see page 1011



"THE ADABURG" 6 Rooms and Bath
Size 24 ft. wide x 32 ft. deep
For plans and details see page 1012



"THE AULTMAN" 6 Rooms and Bath
Size 28 ft. wide x 22 ft. deep
For plans and details see page 1010



"THE AINGER" 5 Rooms and Bath
Size 24 ft. wide x 42 ft. deep
For plans and details see page 1015

See Next Two Pages for Six More Hoosier Giant Brix Permanent Homes

For further details and literature, write to: **HOOSIER BUILDING TILE & SILO CO., Albany, Ind.**

Permanent Homes Built of Hoosier Hollow GIANT BRIX



ELMER WOOD HOME
Parker, Indiana

This cozy home has 6 rooms and bath.

It is constructed throughout of Hoosier Hollow Giant Brix, making it an extremely easy house to heat in winter, while cool in summer—due to its hollow walls.

Our No. 100 Brix were used in building this house —a rich Chocolate Brown, laid in chocolate colored mortar.

PAUL GAGLE HOME AND GARAGE
Portland, Indiana

Five rooms and bath.

A 24'x28' house built of Hoosier Hollow Giant Brix with Face Brick trim, illustrating how beautifully Giant Brix combine with other building materials.

Our No. 101 Giant Brix were used in building this house. This is a Medium Brown — sometimes called Bungalow Brown

The Garage is built of same Brix to match house.





E. O. HEDGES' HOME
Albany, Indiana

A Bungalow type of home with living room, dining room, kitchen, breakfast nook, two bedrooms and bath on ground floor and two additional bedrooms in attic.

All masonry work, except porch columns and trim are of Hoosier Hollow Giant Brix.

For further details and literature, write to: **HOOSIER BUILDING TILE & SILO CO., Albany, Ind.**

Permanent Homes Built of Hoosier Hollow GIANT BRIX

WILBUR STANLEY RESIDENCE and GARAGE

Carmel, Indiana

Both house and garage are built of Hoosier Hollow Giant Brix, illustrating the usefulness of this building material for both large and small structures.

House has 8-inch walls which are plastered inside directly on the Brix without furring strips or lath.

In the construction of this house our No. 101 Medium Brown Giant Brix were used, laid in chocolate colored mortar.





RESIDENCE IN FOND DU LAC, WIS.

Homes built of Hoosier Hollow Giant Brix are comfortably heated in the coldest weather with a minimum of fuel.

The numerous dead air spaces in the walls provide the most efficient means of minimizing heat losses and at the same time prevent moisture from penetrating from the outside.

HOUSE IN LINCOLN PARK ADDITION

Detroit, Michigan

Erected by American Building Company—one of 25 homes built of Giant Brix by this company in 1925.

House illustrated has 8-inch walls of Hoosier Hollow Giant Brix—No. 104, Purple-Black, laid in black mortar.

A striking contrast to the rich dark tone of the Giant Brix is afforded by the artificial stone trim.



For further details and literature, write to: **HOOSIER BUILDING TILE & SILO CO., Albany, Ind.**

Clinton Mortar Colors

Made since 1887 by

THE CLINTON METALLIC PAINT COMPANY

Clinton, New York

Products

For the past 38 years, The Clinton Metallic Paint Company has been making a wide variety of mortar colors. In addition, they make metallic paints and roof cement. To the leading architects and building contractors, as well as to thousands of home owners, the name of "Clinton" has come to mean exceptional dependability and satisfaction. Clinton Mortar Colors always have been noted for their permanence and uniformity.



To be sure of a thoroughly dependable Mortar Color look for this yellow label, which appears upon all bags or barrels containing Clinton Mortar Colors.

1/5 of Your Brickwork Is Mortar

Many people are somewhat surprised when told that the mortar joint in a brick wall constitutes anywhere from 1/6 to nearly 1/4 of the entire surface of the wall—depending upon the bond, or arrangement, of the bricks. Knowing this, the matter of mortar is not dismissed as it used to be, with an air of indifference as though of small consequence. For its importance from the standpoint of beauty, as well as utility, is recognized by all who have made a really broad study of the planning and erection of buildings.

The Coloring of Mortar

The present popularity of colored mortar in brick-walled buildings is no passing vogue. It has been used for years and the striking improvement that it can make in the appearance of a structure has developed it from the experimental stage of years ago to a general modern practice.

A plain, uncolored mortar joint rarely, if ever, increases the natural beauty of a brick structure. More often than not it actually mars the general effectiveness of carefully selected brick and, unfortunately, the condition can not be remedied once the wall is laid.

Once the beautiful effects obtainable with Clinton Mortar Colors are seen in a finished building, the very slight economy of using plain mortar is hard to justify.

Enhances Beauty of Brickwork

The distinctive beauty of old brick homes both in America and abroad has long been a subject of interest and study to prominent architects and building contractors. And there is no concealing the important contribution given it by mortar, colored by aging, slightly tinted sands that happened to be available or in some cases by the actual mixing of colors with the mortar.

The significant thing is that much the same effects can be obtained today, but in a far greater variety, through the use of Clinton Mortar Colors. And not only on the outside surfaces of your building, but on the interior brickwork of fireplaces and chimneys as well. Brick surfaces that would otherwise be commonplace can be endowed with the lasting charm of attractively blended colors by giving careful attention to *both* mortar and brick.

Increases Value of Your House

It can be honestly said that there are few items in the construction of a house which yield so much satisfaction *and value* in proportion to their cost as the specification of a Clinton color for the mortar. Judiciously used, it gives the house a visible and permanent asset that is simply lost by the use of uncolored mortar.

Far-sighted building contractors recognize this and, more and more, houses built to be sold are being given the undeniable advantage of colored mortar joints. And this is equally true of houses built under the direction of their permanent owners. For the amount of satisfaction and contentment which the finished home affords constitutes the greatest part of its value to the owner.

It is obvious, of course, from an investment standpoint as well as that of enduring beauty, that the mortar colors must be permanent beyond question. Clinton Mortar Colors are absolutely sun and rain fast.

Variety of Clinton Mortar Colors

These standard mortar colors are available in a wide range of shades that offer the home builder the broadest possible opportunity for making a selection. From a rich, mellow buff they range through warm browns, olive green and chocolates to the deepest red and blackest black.

The colors used alone in varying quantities or mixed with one another make possible almost any effect from pearl gray tones, (produced by using a very little black) or warm aged hues, (obtained by using a small amount of buff) to the most striking of tones which can be obtained by using these colors in the quantities specified for them. The list of genuine Clinton colors is given in a paragraph on following page.

Permanence and Uniformity Vital

Inasmuch as the mortar joint is exposed to varying degrees of sunlight and weathering, the need for a permanent and uniform coloring medium is evident. Clinton Mortar Colors are mineral colors and as permanent as the colors of natural rock. Standardized methods of production and rigid laboratory tests keep them absolutely uniform, not only from shipment to shipment but from year to year. The full importance of this is apparent when the exact duplication of a wall of brick with colored mortar joints is desired, often many years afterwards.

Selecting Your Mortar Color

You will note that the first three colored panels shown herewith all have identically the same shades and arrangement of brick. The striking difference in the appearance of each wall as a whole was obtained entirely by the use of different Clinton Mortar Colors. These three panels alone are impressive evidence of the rather surprising variety of treatments that a wall can be given through the use of Clinton Mortar Colors.

In order to help in a choice of the proper Clinton color to use with the brick you have selected, we have devised the Clinton Mortar Color Experimenter. This consists of a number of strips of wall board ½ inch thick, tinted along the edges to reproduce the appearance of colored mortars. By using these, brick panels can be built up and studied with the various colored strips without the use of actual mortar.

Every Clinton Mortar Color dealer has one of these experimenters for the convenience of his customers.

Test Panels Advisable

After selecting a Clinton Mortar Color with the aid of our experimenter, a test panel of the brick and colored mortar should be set up out of doors before work on the walls is actually begun. Local variations in the color of sand and cement often make a slight change in the amount of mortar color used desirable.

Test panels should be allowed to stand for a few days before a final decision is made, to give the mortar ample opportunity to dry out and attain its permanent color. The mortar when wet is deeper in shade.

Warning—Test panels should be of the same thickness as the finished wall and should be allowed to dry naturally as under working conditions. They should be backed with mortar so that drying may be from the surface exposed in actual construction.

Directions for Using Clinton Mortar Colors

To get a mortar joint of intense color it is advisable to use approximately 100 lbs. of dry mortar color per 1000 brick laid in running or common bond, with half-inch mortar joints. If

mortar joints are wider or narrower, or if a bond requiring more or less mortar per 1000 brick is used, the amount of mortar color required per 1000 brick should be increased or decreased proportionately.

Following are two formulas for mortar of deep intense color:

Cement Mortar

Clinton Mortar Color (dry)	25 lbs.
Portland cement	1 bag (1 cu. ft.)
Sand	3 bags (3 cu. ft.)
Hydrated lime	1/10 sack

The above is sufficient to lay approximately 250 brick in running or common bond with half-inch mortar joints.

Cement Lime Mortar

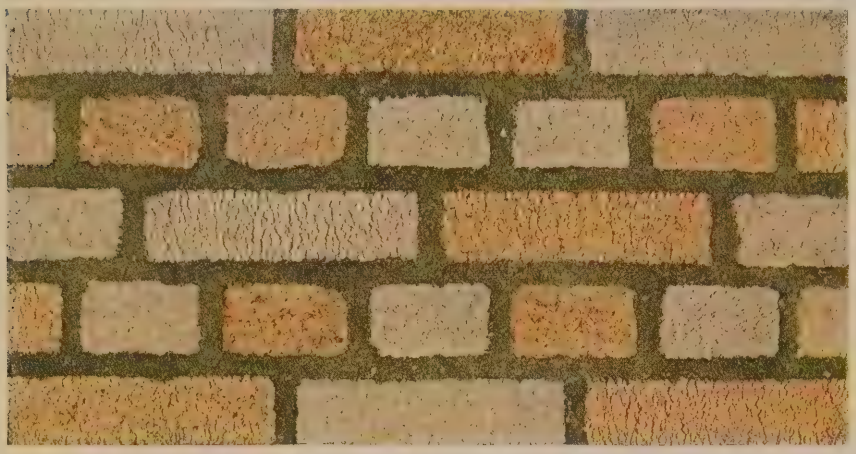
Clinton Mortar Color (dry)	30 lbs.
Portland cement	1 bucket (16 qts.)
Hydrated lime	1 bucket (16 qts.)
Sand	6 buckets (96 qts.)

The second formula is sufficient to lay approximately 300 brick in running or common bond with half-inch mortar joints.

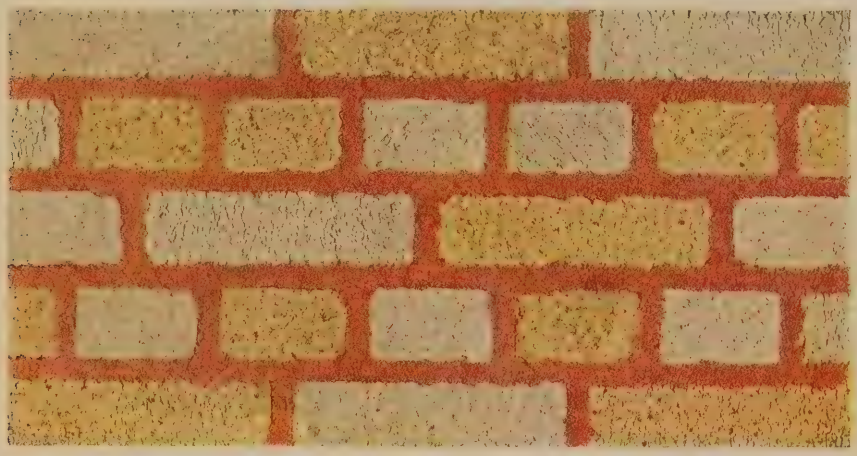
As it is not always convenient to weigh the color on the job, we tabulate below the various shades of Clinton Mortar Color, showing in separate columns the number of quarts of dry Clinton Mortar Color (*struck measure*) which are equivalent to 25 lbs. and 30 lbs.

Caution: *This table applies only to genuine Clinton Mortar Colors.*

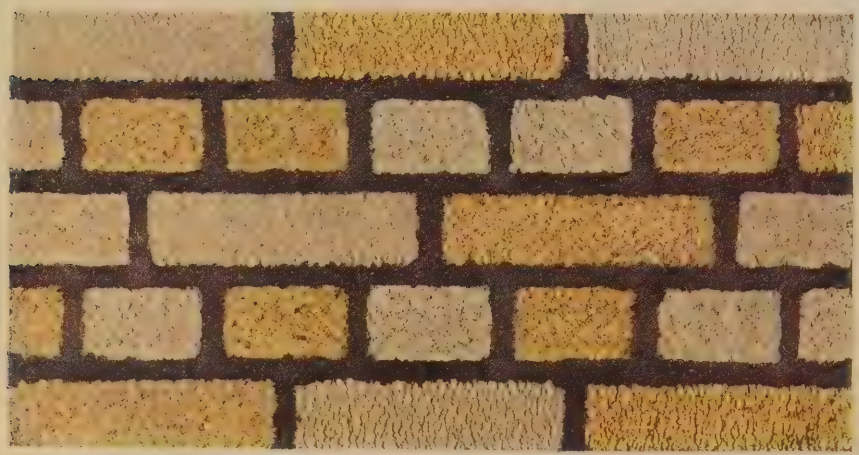
	Number of quarts Equivalent to 25 lbs.	Equivalent to 30 lbs.
Clinton Hematite Red No. 10	10	12
Clinton Mortar Brown No. 400	8½	10½
Clinton D. S. Chocolate No. 402	9	11
Clinton Special Chocolate No. 404	9	11
Clinton Colonial Buff No. 700	19	23
Clinton Pompeiian Buff No. 600	19	23
Clinton Dark Buff No. 717	16½	20
Clinton Mortar Black No. 900	18½	22½
Clinton D. S. Black No. 800	19	23
Clinton D. S. Olive Green No. 1503	17½	21



Mortar Colored with Clinton Double Strength Olive Green No. 1503



Mortar Colored with Clinton Pompeiian Buff No. 600



Mortar Colored with Clinton Double Strength Chocolate No. 402

Pearl Gray Mortar may be produced by using one-fourth as much Clinton Double Strength Black No. 800 as is recommended above to produce intense black mortar.



The Clinton Mortar Color Experimenter No. 1

Clinton Mortar Black No. 900 or Single Strength Black, as it is sometimes called, will not give a jet black mortar. For best work use Clinton Double Strength Black No. 800.

If a clear buff mortar is desired a cement-lime mortar is recommended. Light colored cement and sand also tend to make the color of the mortar more brilliant. If a deep buff mortar is desired it will be obtained most readily by using a cement mortar with cement and sand of a dark color.

Many contractors get good results with smaller proportions of Clinton Mortar Colors than those above recommended. This is possible if coarse sand is used and colors are mixed, remixed, then mixed again. Experience, however, proves that the amounts of color recommended will give good results under all conditions and we can not assure satisfaction if less color is used. *Money spent for a little extra color often more than pays for itself, in power and wages saved at the mixer and in the owner's satisfaction with the finished job.*

How to Be Sure of Good Results

Mistaken attempts at economy and carelessness in the use of mortar colors sometimes cause dissatisfaction with the results.

Such disappointments are wholly unnecessary and can be avoided if the formulas given are followed and these precautions are observed:

(1) Choose a *dependable brand*—one you *know* is uniform, permanent and of strong coloring power. Insist upon it. Do not accept a substitute. Be sure it is delivered in the original bags or barrels on the job.

(2) *Make up test panels before you start the job.* Make them as thick as the finished wall and back them with mortar so that drying will be under normal building conditions. Let dry thoroughly out of doors before deciding on the color. Mortar dries out lighter than it appears when wet.

(3) *Do not change mortar color brands in the middle of a job.* Some brands are weaker than others and of different color tone.

(4) Do not, *in the middle of a job, change the kinds of lime, sand or cement used,* especially if the mortar is light in color, either gray or buff.

(5) Measure or weigh mortar material according to directions. Do not guess.

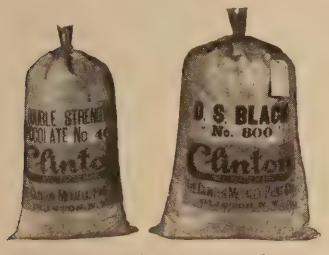
(6) *Mix the materials thoroughly.* It is best to mix the dry color, sand, hydrated lime and cement before the water is added, and after the water has been added mixing should continue until the mass is absolutely free from spots or streaks of color. Mixing can hardly be overdone.

(7) If lump lime is used in place of hydrated lime it *must* be thoroughly slaked and allowed to cool at least 24 hours before being brought into contact with the Mortar Color. *Hot lime fades color.*

(8) *Use Mortar as stiff as practical.* Do not use "sloppy" mortar. Keep batches as nearly as possible at the same consistency throughout the job.

(9) When laying brick with a ½-inch joint, do not use amount of color recommended for a ¼-inch joint or vice versa. Occasionally we find masons still using for a ½-inch joint (which requires twice as much mortar) only 50 pounds of color per 1000 brick because that is the amount they used when the ¼-inch joint was in common use.

(10) *Because a certain number of quarts of one color in a batch of mortar has given good results, do not use the same number of quarts of another color and expect good results.* Bulk and coloring power are not the same for different colors, as will be seen from the table on opposite page. The sack of Clinton Double Strength Chocolate No. 402 shown herewith is, for example, about half the size of the sack of Clinton Double Strength Black No. 800; yet each weighs the same and each will color an equal quantity of mortar. In coloring mortar, follow the exact direction for the specific color wanted and all difficulties will be avoided.



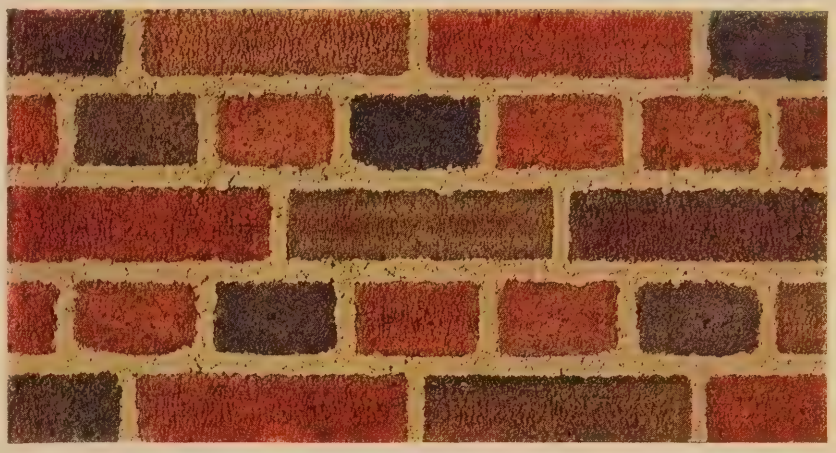
(11) If joints are to be raked, *defer raking until mortar has began to set.* This, together with working mortar as dry as possible, will help to prevent efflorescence—the appearance of a white scum upon the mortar.

(12) If you do have efflorescence, do not worry, and do not blame the mortar color. It is caused by water soluble salts in the cement, lime, sand or water, that are brought to the surface by the water and left there when the mortar dries. It is just as common on plain mortar joints as on color joints, though it is not always so clearly visible. Clinton Mortar Colors absolutely do not cause efflorescence, being entirely free from water soluble salts.

When mortar is used as dry as possible these salts do not come to the surface nearly as much as when a "sloppy" mortar is used. When joints are raked after the mortar has begun to set this efflorescence or scum is removed and usually does not appear again.

In almost every case the action of rain will in time remove efflorescence. If, however, it is desired to remove it promptly, the surface of the mortar may be scrubbed with a wire brush; or a solution consisting of one part muriatic acid to *not less than* twenty parts water may be applied as a wash. After washing the wall with this solution be sure to wash it down again with water to remove surplus acid.

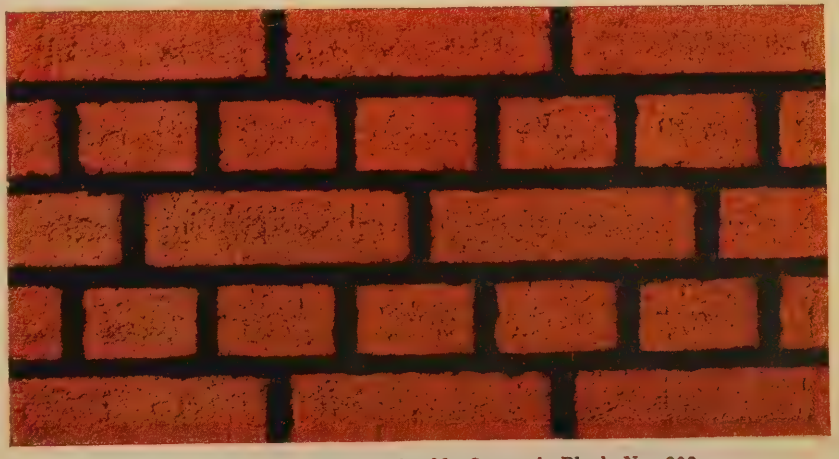
Remember: The man who measures and who mixes the mortar holds one of the most responsible positions on the job. Make him realize this responsibility and it will save a world of trouble and help to insure satisfactory results.



Mortar Colored with Clinton Colonial Buff No. 700



Mortar Colored with Clinton Special Chocolate No. 404



Mortar Colored with Clinton Double Strength Black No. 800
Full strength is recommended for mortar of intense black color

Coloring of Stucco

The fact that stucco may be tinted has added much to its popularity as a facing material. By use of various Clinton Mortar Colors, it is possible to color stucco in many pleasing tones.

Coloring of rough surfaced stucco is recommended without qualification. The color lends a rich warmth that ordinary gray stucco does not possess. Its use offers no difficulties and brings no disappointments if specifications are followed with care.

In smooth finished stucco the color follows the trowel or float, giving a surface of somewhat irregular or mottled appearance. Many architects consider that this increases the interest of the finished wall and improves the effect. But those whose minds are fixed upon a wall of unbroken color uniformity are advised before using it to study the effects that color gives in smooth finished stucco.

Irregularity and non-uniformity in stucco are increasingly popular. This is evidenced by the large number of jobs where the sweep of the trowel is emphasized and where its traces add to the interest of the wall surface.

The following formula is suggested:

1 quart Clinton Mortar Color (Note 1)
1 quart hydrated lime (if desired)
10 quarts white portland cement (Note 2)
30 quarts sand.

This batch covers about 125 sq. ft. finish coat. Only the finish coat need be colored.

NOTE 1. We recommend the following Clinton Mortar Colors as producing very pleasing shades when used in stucco as per this formula. Approximate weight per quart (struck measure) is given in each instance for convenience in estimating.

		Approx. wt. per qt. enough for approx. 125 sq. ft.
Rich Pink	Clinton Hematite Red, No. 10	2¾ lbs.
Pinkish Brown	Clinton Mortar Brown, No. 400	3 lbs.
Light Cream	Clinton Colonial Buff, No. 700	1½ lbs.
Deep Buff	Clinton Dark Buff, No. 717	1¾ lbs.
Pinkish Buff	Clinton Pompeiian Buff, No. 600	1½ lbs.
Light Gray	Clinton Mortar Black, No. 900	1½ lbs.
Deep Gray	Clinton D. S. Black, No. 800	1½ lbs.

NOTE 2. To obtain the shades described, white portland cement *must be used.* If ordinary cement is substituted, deeper though pleasing shades will be produced with the red, brown and blacks. The buffs yield very unattractive shades with ordinary cement.

NOTE 3. For deeper buff use 1½ quarts color or substitute Clinton Dark Buff, No. 717.

Duo- and Multi-colored Stucco

The popularity of duo- and multi-colored stucco, which is being used so extensively in Southern Florida, is rapidly spreading throughout the country. Clinton Mortar Colors and Cement Colors are particularly well adapted to the coloring of stucco of this type.

In duo- and multi-colored stucco work, the two ordinary base coats are applied as usual and allowed time for setting. For the finish coats, the following formula is suggested:

Sand	3 parts
White cement	1 part
Color	1/10 part (or volume equivalent to 10% of volume of cement used.)
Lime (optional)	1/10 part

In order to secure pleasing tones of buff or yellow, a light colored yellowish sand is recommended and white portland cement is essential.

The first colored coat should be applied approximately ⅛-inch thick, with a smooth or sand finish. Blue and green are popular for first colored coats.

The second colored coat may be applied almost immediately. It should be spatter-dashed with a whiskbroom, allowing the first colored coat to show here and there at varying intervals. Although the area of the second colored coat should be somewhat greater than the final visible area of the first colored coat, this exact proportion will depend upon individual taste, size of building, and control of throwing spatter-dash.

The projections of the second colored coat should then be smoothed down with a steel trowel held almost flat against the surface.

An unlimited variety of pleasing color combinations may be obtained in this type of stucco. Two panels of duo-colored stucco thus prepared are illustrated below. For panel A the first coat is colored with Clinton No. 1502 Green Cement Color, the second coat with Clinton No. 717 Buff Mortar Color. For panel B the first coat is colored with Clinton No. 1601 Blue Cement Color, while the second coat is colored with Clinton No. 600 Pompeiian Buff Mortar Color.

Working samples of Clinton Mortar Colors and Clinton Cement Colors are willingly furnished on request.

Special Information

During the 38 years this Company has been in business it has obtained through research and experience a vast stock of information concerning the use of colors in mortar, stucco, sidewalks, pavements, and concrete products of all kinds. Lack of space prevents the inclusion of all this material in The Home Builders Catalog. However., a special Service Department is maintained for the convenience of Builders and all sorts of inquiries are cordially welcomed.



PANEL A



PANEL B

Anchor Brand Mortar Colors, Cement Colors and Stucco Colors

Established 1878

Made by

C. K. WILLIAMS & CO.

Easton, Pennsylvania

MINES AND RAW MATERIAL DEPOSITS

EASTON, PA. (two mines) FLEETWOOD, PA. READING, PA. WYOMISSING, PA. LEHIGH GAP, PA.
FRUITLAND, N. Y. MONROE, LA. MINERAL POINT, MO. MALAGA, SPAIN

PLANTS

EASTON, PA. (four plants) FLEETWOOD, PA. EAST ST. LOUIS, ILL. MINERAL POINT, MO.
FRUITLAND, N. Y. GRANITE CITY, ILL. MARTINS FERRY, OHIO ALLENTOWN, PA. MONROE, LA.
MALAGA, SPAIN

LOCAL REPRESENTATIVES

NEW YORK, N. Y., Emil Hoefle, 338 Grant Avenue, Brooklyn.
BOSTON, MASS., C. E. Gale, 141 Milk Street.
NEWARK, N. J., Tomkins Brothers, 48 Passaic Street.
IRVINGTON, N. J., Tomkins Brothers, South 20th Street near Clinton Ave.
JAMAICA, L. I., N. Y., Tomkins Brothers, 181st Street and L. I. R. R.
RICHMOND, VA., R. McC. Bullington & Co., 1323 East Cary Street.
PITTSBURGH, PA., E. E. Zimmerman, Bessemer Building.
CLEVELAND, OHIO, Federal Lime & Stone Co., Williamson Building.
CINCINNATI, OHIO, Carl Cassin, 37 Thoms Building.
DETROIT, MICH., Baker & Collinson, 9800 Greeley Avenue.
CHICAGO, ILL., R. D. Kinder, 500 North Dearborn Street.
MINNEAPOLIS and ST. PAUL, MINN., L. A. Moore, 2233 Charles Street, Minnesota Transfer.
SAN FRANCISCO, CALIF., Marshall Dill, 216 Pine Street.

SOLE IMPORTER FOR ONTARIO AND QUEBEC, CANADA, P. N. Soden & Co., St. Nicholas Bldg., Montreal, Que.

AGENTS IN ALL PRINCIPAL CITIES—SOLD THROUGH DEALERS ONLY

Products

Anchor Brand Mortar Colors.
Anchor Brand Cement Colors.
Anchor Brand Stucco Colors.

The Growing Popularity of Mortar Colors

The rapidly increasing demand for Mortar Colors from year to year is the best indication of their increasing popularity. This is only a natural consequence because they offer to the architect and builder a wider range of color effects possible to bring out the best in the present high grades of face brick. The many different textures and colors in which the better grades of face brick are now being made up in, call for a judicious use of colors in order that the best effects and proper color harmony can be obtained. Since, in an average brick wall about 1/5 of the face area is consumed by the mortar joints, it stands to reason that the proper coloring of the joints should receive as careful consideration as the selection of the brick.

Special Facilities of C. K. Williams & Co.

C. K. Williams & Co., produces its own Mortar, Cement and Stucco colors in its own plants, and with a few minor exceptions, obtains its raw products from its own mines and raw material deposits. For this purpose it has a highly specialized organization and a plant equipment consisting of 10 mines and raw material deposits, and 14 color plants.

Anchor Brand Mortar, Cement, and Stucco Colors, backed by forty-eight years of experience of the world's largest producer of mineral pigments, are the standard of excellence in this line. The policy of the company since its inception has been to produce colors of maximum quality and uniformity. This can be done only through absolute control of the color beginning with the crude ore in the mine to the finished product in the hands of the dealer, an advantage of greatest importance to the user. Anchor Brand Colors are highest in quality, therefore cheapest to use.

Directions for Using Anchor Brand Mortar Colors

Have the Anchor Brand Mortar Color brought to the job in the original packages and do not open until ready to be used. Sand, lime, and cement vary in different localities and the proper amount of color can therefore only be determined by experiment. For large and important jobs we recommend the erection of test panel to determine the exact amount of color to be used. These panels should be laid up to the same thickness of the proposed wall and all the materials should be the same as are to be used in the final work. Please note that colored mortar when it is still wet is darker in shade than when dry. Consequently, the proper color of the joint will only be shown after it has set and is thoroughly dry. If the joint is too light after it is dry use more color in the mix. If too dark use less.

Mixing

Dry color, sand, hydrated lime and cement should be thoroughly mixed before water is added. Add water and continue mixing until the mass is absolutely free from spots or streaks of color. Mix the mortar as stiff as practicable and keep batches as nearly as possible at the same consistency throughout the job. The same proportions of ingredients should be accurately maintained in all the batches. Do not change the kinds of lime, sand, cement and color after the work is begun.

Opposite the accompanying brick panels are given typical formulas for cement mortar with a lime content equal to approximately 10 per cent of the cement by weight. It is important that the lime be carefully weighed because it is a strong white pigment and variations in quantity will cause a corresponding variation in the shade of the mortar. If lump lime is used instead of hydrated lime, it must be thoroughly slaked and allowed to cool at least 24 hours before being mixed with the Mortar Color. **HOT LIME BLEACHES COLOR.** Furthermore, slaked lime which has been permitted to age for a few days before mixing, makes a better mortar than when used immediately.

Cleaning, Pointing and Raking Joints

When plasterers have left building, all surface brick and mortar should be thoroughly cleaned by applying a solution containing not more than one part of muriatic acid to 20 parts of water, using a stiff wire brush. Surface should then be rinsed with clean water. All defective joints should be carefully pointed up at this time. If joints are to be raked, this should not be done until mortar has begun to set.

Efflorescence—And How to Prevent It

If mortar is mixed stiff and raking of joints deferred until mortar has begun to set, efflorescence will rarely occur. Should it develop, however, it may be removed by scrubbing the mortar joints with the muriatic acid solution mentioned in preceding paragraph. Efflorescence is in no way caused by the Mortar Color. It is due to the occurrence of soluble salts in cement, sand, lime, water or brick, and is just as common in plain mortar as in colored mortar, though not so easily visible.

Anchor Brand Cement Colors

Anchor Brand Cement Colors are of very high quality, producing clear, bright tones with a minimum of coloring material. They are used in floors, sidewalks, cast-stone work, roofing and floor tile, stucco, etc., and should not be confused with Mortar Colors.

Tinted Floors Add to the Charm of a Home

Many beautiful effects in flooring can be obtained by the use of colored cements and at a cost that makes a colored cement floor possible when more expensive materials would be prohibitive on account of price.



Cream Rough Texture Brick Laid with Anchor Brand No. 1184 Brown

Straight Bond—Flush Joint

188 lbs. Sand (2 cubic feet)
94 lbs. Cement (1 bag)
9½ lbs. Hydrated Lime
20½ lbs. No. 1184 Brown

For further details and literature, write to: **C. K. WILLIAMS & CO., EASTON, PA.**

Five Range Rough Texture Brick Laid with Anchor Brand No. 19 Buff

Garden Wall Bond—Raked Joint

188 lbs. Sand (2 cubic feet)
94* lbs. Cement (1 bag)
9½ lbs. Hydrated Lime
15 lbs. No. 19 Buff





Full Range Rough Texture Brick Laid with Anchor Brand No. 1151 Red

Flemish Bond—Raked Joint

188 lbs. Sand (2 cubic feet)
94 lbs. Cement (1 bag)
9½ lbs. Hydrated Lime
20½ lbs. No. 1151 Red

Five Range Rough Texture Brick Laid with Anchor Brand No. 1174 Double Strength Chocolate

Garden Wall Bond—Flush Joint

188 lbs. Sand (2 cubic feet)
94 lbs. Cement (1 bag)
9½ lbs. Hydrated Lime
15 lbs. No. 1174 Double Strength Chocolate Brown





Full Range Rough Texture Brick Laid with Anchor Brand No. 222 Double Strength Black

Flemish Bond—Flush Joint

188 lbs. Sand (2 cubic feet)
94 lbs. Cement (1 bag)
9½ lbs. Hydrated Lime
14 lbs. No. 222 Double Strength Black

When planning a home consider the use of colored cement floors for porches, entrance halls, sun parlor, sleeping porch, kitchen, breakfast alcove, laundry and sidewalks. The cost of colored cement is but little more than plain cement while the decorative effect adds greatly to the charm of the home. Besides that, cement floors are more permanent.

How to Lay a Colored Cement Floor

The subfloor under colored cement topping should be laid as usual, except that a somewhat drier mix should be used and the concrete should be well tamped immediately after pouring. One inch should be allowed for the top dressing which should be laid immediately after the subfloor has been tamped and leveled.

Mixing

For a one-inch top dressing take equal parts of a good grade of cement and fine sharp sand, free from loam, or other impurities. To these add 5 percent, by weight, of the cement color. That is to say, if you use 100 lbs. of sand and 100 lbs. of cement (making 200 lbs. in all) add 10 lbs. of cement color.

Cement sand and color should be thoroughly mixed before water is added. Only enough water should be used to make a heavy paste, and the mixing should then be continued until the mass is entirely free from spots or streaks of color.

Applying the Color Coat

While the subfloor is still moist, the top dressing should be spread over it to a depth of one-half inch and troweled to work the air out of the mass. Do not attempt to lay the full depth of one-inch at once, but lay half-an-inch of top dressing first and gradually build up to the proper level, troweling and stroking each additional layer.

Use the stroke board to chop the surface, as the mass, if properly mixed, will be too stiff to stroke in the usual way. Do not use the trowel or final coat until all water on the surface disappears. Remove any surplus cement with trowel and level surface. Then wait until surface of cement becomes dull and when this occurs finish by dusting lightly with clear dry cement and 10 percent of the cement color, thoroughly mixed.

Subsequent Treatment

The permanence of cement is greatly increased by slow setting. To insure this, sprinkle saw dust on floor to a depth of 2 inches as soon as top dressing is sufficiently set to prevent sawdust from sticking. Moisten sawdust with water and keep it moist for at least 2 weeks.

At the end of this period the sawdust should be removed and floor washed with linseed oil soap, using a wire brush if necessary to remove dirt and stains. When clean and dry, spread a 2-inch layer of *dry* sawdust over the floor and let this remain as a protective covering until the house is finished.

Just before floor is to be put into use remove sawdust, sweep well, and polish floor with some good floor wax applied according to manufacturer's directions. The result of following these directions will be a beautiful, permanent and sanitary floor.

The Tile Effect

To secure the tile effect in colored cement floors lay the top dressing as above directed and wait 48 hours until surface has taken the initial set. Then cut surface to a depth of ⅛-inch with a three-cornered file sharpened to a diamond point, so as to produce the tile effect in the desired pattern. Do not attempt to mark off tile pattern while cement is in a plastic state as this is sure to result in ragged edges.

Available Colors—Our list of colors suitable for cement and stucco work is too long to publish here, but the more important numbers are given below. For special shades or tints, we will be glad to supply samples on advice of just what is wanted.

No. 306-M	Dark Red	No. 1149-D	Yellow Oxide
No. 305	Dark Red	No. 1	French Yellow
No. 500	Medium Red	No. 5	French Yellow
No. 487	Medium Red	No. 7	French Yellow
No. 1241	Medium Red	No. 195	Light Buff
No. 9135	Light Red	No. 17	Dark Buff
No. 1195-B	Light Red	No. 18	Dark Buff
No. 1133	Light Red	No. 1117	Dark Buff
No. 1168	Brown	No. 79	Olive Drab
No. 901	Brown	No. 268	Green
No. 1169	Brown	No. 271-B	Green
No. 96-L	Brown	No. 271-D	Green
No. 80	Brown	No. 270	Green
No. 805	Brown	No. 328	Blue
No. 1149-L	Yellow Oxide	No. 225	Black
No. 1149-M	Yellow Oxide	No. 216	Black



Cement Floor Tile Colored with Anchor Brand Cement Colors

For further details and literature, write to: **C. K. WILLIAMS & CO., EASTON, PA.**

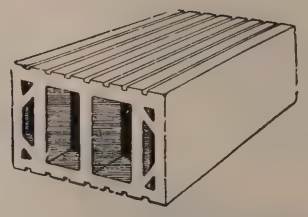
HOOSIER GLAZED Building Tile

For Foundations and Basement Walls

HOOSIER BUILDING TILE & SILO CO.

ALBANY, INDIANA

☞For Hoosier Giant Hollow Brick (See pages 57 to 60)



Use

The Hoosier Glazed Building Tile is used as a combined foundation and basement wall. It makes a superior foundation having many times the supporting strength necessary for its burden. Its glazed surface makes it the ideal basement wall, beautiful and sanitary; beautiful because of its rich, velvety brown surface and sanitary because it holds no dampness and is easy to clean. In reality the use of Hoosier Glazed Building Tile gives you another room, a room as attractive as any in your house.

Size of Blocks

Just right size to look good, having a 5″x12″ face and can be furnished in either 4″, 8″ or 12″ widths for various thickness of walls.

Easy to Lay

Use ordinary mortar waterproofed.

Dry Wall

Because Hoosier Glazed Building Tile are hollow and burned to a flint-like hardness. So made and built in a wall that there is no direct connection from outside to inside of wall to draw dampness. Eliminates capillary attraction entirely.

Makes a finished wall at one operation, no forms to build, tile comes ready to lay. All necessary shapes for fitting window frames and corner blocks for making perfect bond.



For further details and literature, write to: **HOOSIER BUILDING TILE & SILO CO., Albany, Ind.**

HOOSIER STUCCO BLOX (Hollow Tile)

Made by

HOOSIER BUILDING TILE & SILO CO.
ALBANY, INDIANA

Hoosier Stucco Blox

Hoosier Stucco Blox are especially designed for the construction of an exceptionally strong, non-vibrating, non-effervescent, moistureproof economical base upon which to apply Stucco.

For Hoosier Giant Hollow Brick see pages 57-60.



Home of Mr. Frank Henderson, Muncie, Ind., built of Hoosier Stucco Blox (hollow tile).

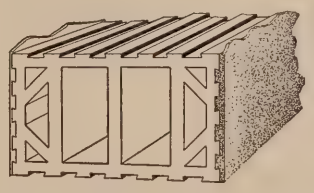
Strong—Made of a special grade fire clay which does not contain alkali, lime or foreign substance to prevent the burning to a degree of hardness sufficient to withstand a crushing strength of 2,000 pounds to the square inch gross area. In addition to the strength of the material, the design of the corner braces and web walls are such as to further insure the load bearing capacity.

Non-vibrating—The width of the bed joint, eight inches, and the design of the head joint, providing a mortar locking feature, is such as to make the finished wall as rigid as though it were an individual unit.

Non-effervescent—Such foreign substances as would cause discoloration are entirely eliminated in the burning process. The clay being of such quality as to permit burning at a temperature of 2000° F. yet holds its shape. This particular clay is found beneath coal beds in a limited section of the Middle West, lying in stratas of from eight to ten feet in depth.

Moistureproof—Because of the exceptional hardness of the Hoosier Stucco Blox, the special design of which when laid up makes a continued dead air chamber, capillary attraction is eliminated.

Economical—Makes a complete wall at one operation. Furnishing all necessary shapes such as window jambs, corner blocks and clotures for completing a wall in a mechanical manner without any cutting or fitting. The dovetail grooves provide for the application of both the stucco and interior plaster without the use of studding, building paper or lath.



End View of Main Wall Hoosier Stucco Blox

5 in. high, 8 in. wide, 12 in. long, for 8-in. wall construction. Can be furnished 12-in. width, if desired.

Instructions for Laying Stucco Blox

Mortar—All mortar used for laying up Stucco Blox should consist of a standard portland cement and clean, sharp sand in the proportion of one part cement to three parts sand, well mixed to a smooth, moderately stiff mortar.

Lime—When permitted by stucco manufacturers, lime should not exceed 10% of the cement by volume in the mortar.

Reinforcement Over Openings—Can be provided by metal bars placed horizontally inside of Blox, then filled with concrete; or the use of steel lintels.

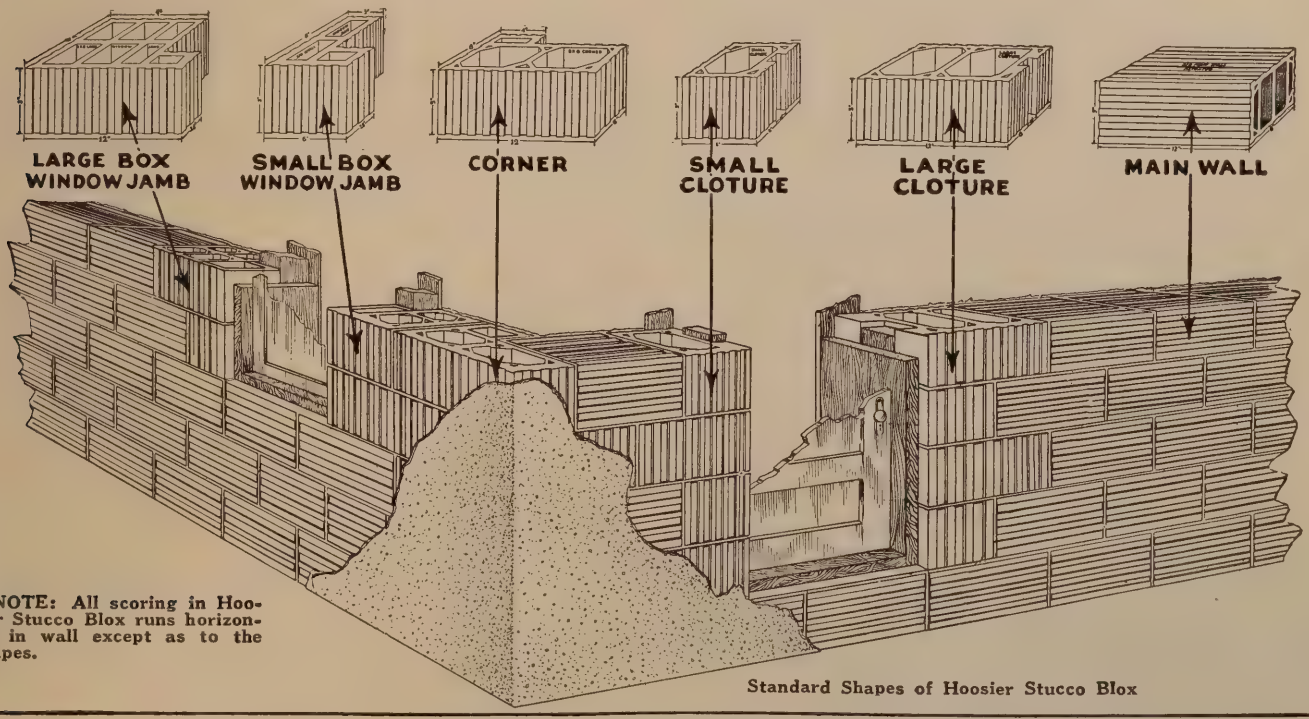
Nailing Devices for Woodwork—Can be provided by placing a wood block in the inner wall; by plugging the wall, or the use of metal nailing devices.

Window Sills and Lintels—Stone, brick or concrete can be used.

Placing Floor and Ceiling Joists—Four-inch veneer Blox are furnished providing a four-inch shoulder.

Attaching Roof Plates—By means of bolts set in mortar between the Blox.

Windows and Door Frames—See drawing below. Also use metal device to prevent spreading of the wood frame from the wall. It is also well to use calking compound between wood frames and masonry.



NOTE: All scoring in Hoosier Stucco Blox runs horizontal in wall except as to the shapes.

Standard Shapes of Hoosier Stucco Blox

For further details and literature, write to: HOOSIER BUILDING TILE & SILO CO., Albany, Ind.

Hollow Building Tile

The Most Economical Form of Permanent Construction

HOLLOW BUILDING TILE ASSOCIATION

Conway Bldg., Chicago



Hollow Building Tile with Stucco Exterior



Built with Smooth Hollow Tile Exterior

The Product

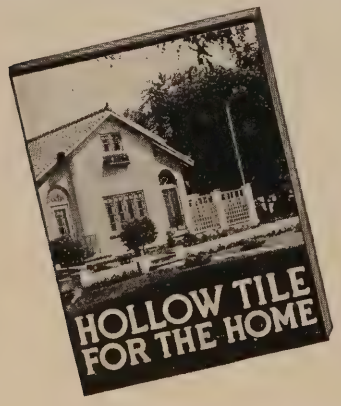
Hollow Building Tile is the youngest and fastest growing member of the family of burnt clay products used as a basic building material. It is manufactured generally by the high standards set by the Bureau of Standards of the U. S. Government in co-operation with the Hollow Building Tile Association and its members.

For Moderate Cost Homes

The inherent values of Hollow Tile Construction make it the ideal material for the building of homes costing as low as $2,500.00 and for the price range from $2,500.00 to $15,000.00. In higher cost homes ranging from $15,000.00 to $100,000.00 or more Hollow Tile is an acknowledged leader and the same desirable qualities apply equally to moderate cost or high cost residences.

Permanence

Hollow Tile construction is age defying, age enduring, permanent. The Hollow Tile walls will not sag, warp, crack, decay or disintegrate in any way. Their load-bearing capacity is more than ten times that required in a residence. Homes of Hollow Tile will provide comfort, safety and satisfaction for generation after generation. The investment and resale value is sustained for long periods of time.



This book illustrates homes constructed of Hollow Tile, with other information of value to home owners.

Maintenance

Upkeep is reduced to a minimum for there are no repairs and painting is for trim only. The air spaces sealed up in the Hollow Tile walls provide superior insulation against the penetration of heat, cold or moisture. Heating costs are the lowest, for Hollow Tile homes are warmer in winter as well as cooler in summer. Additions and enlargements are made with the minimum of time, difficulty and expense. It is the most economical type of home to build or to own.

Safety

Owners of Hollow Tile homes have assurance of exceptional protection against the ravages of the elements for Hollow Tile homes staunchly withstand storm and shock. Protection against fire loss for the Hollow Tile walls cannot burn. In addition home owners have the satisfaction of knowing that unusual healthful, sanitary conditions are constantly maintained.

Beauty

Charm and distinction are not sacrificed as the sturdy, permanent Hollow Tile construction adds to the beauty of line and design created by architectural genius. The material is so simple and flexible in use that it aids in the expression of individuality. The exterior may be Face Tile with its broad color range, face brick or stucco, according to architectural design or individual preference.

Hollow Building Tile

The Most Economical Form of Permanent Construction

HOLLOW BUILDING TILE ASSOCIATION

Conway Bldg., Chicago



Built with Buff Face Tile Exterior



Hollow Building Tile with Face Brick Exterior

Building Contractors

The live, aggressive, prosperous building contractor knows that owner satisfaction is one of the greatest assets in his business. No other method of home building produces greater owner satisfaction than is directly traceable to Hollow Tile Construction.

Amazing Economies

Greater than the remarkable economy to the home owner in maintained values and low upkeep, is the economies present in actual construction. The large units of Hollow Tile save in labor cost—in quantity of mortar—for one tile unit takes the place of six to fourteen brick according to size of unit. That means not only approximately 50% saving in labor and material but a far greater saving in speeding up construction, less interest charges, less overhead, and quicker turnover. It means also increased volume of business with the same capital investment.

Greater Values

Every day the home investor is demanding more and more for his money. Hollow Tile, the most economical form of permanent construction, gives the actual values demanded and the first cost is often less than for common, perishable, inflammable construction. That a Hollow Tile home has greater market value has been demonstrated time after time in all sections of the nation.

Ease of Construction

Hollow Tile is so easy and simple to lay that the inexperienced quickly become expert. The Manual for Builders and Masons is sent postpaid on request. With this valuable book as a guide any character of Hollow Tile construction can be undertaken.

An experienced, competent engineering and advisory service maintained by the Hollow Building Tile Association is at the contractor's command.

General Construction

Hollow Tile is also manufactured for floors, partitions and other uses in addition to residential construction. Thousands of private garages are economically built of Hollow Tile. It is available for Public Garages, Office and Store Buildings, Schools, Churches, Theatres, Hotels and other public buildings, also Industrial Buildings of every type.

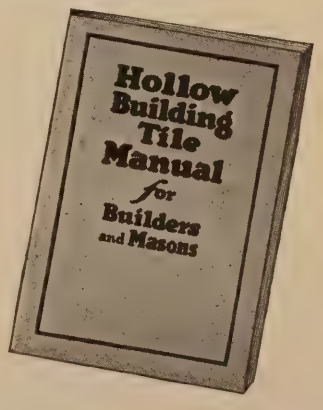
Hollow Tile is especially adapted to every sort of farm building because of its permanency, low cost and fire-resisting features.

Remember

Hollow Building Tile is manufactured in every locality—easily and quickly obtainable everywhere—*List of manufacturers* together with books—*Hollow Tile for the Home*—showing homes constructed in every section of the country—*Hollow Tile Plan Catalog,* showing residences and garages for which detail plans and specifications are available—also *Manual for Builders and Masons* are sent to building contractors on request—address

Hollow Building Tile Association
Conway Bldg., Chicago, Ill.

Get this manual, through its use you can both make and save money.



For further details and literature, write to: **HOLLOW BUILDING TILE ASSOCIATION** Conway Building, Chicago, Ill.

Natco Hollow Building Tile

Manufactured By the

NATIONAL FIREPROOFING COMPANY,

General Offices: Fulton Bldg., Pittsburgh, Pa.

SALES OFFICES

NEW YORK	CHICAGO	PHILADELPHIA	BOSTON
Flatiron Bldg.	26th and Shields Ave.	Land Title Bldg.	Textile Bldg.

Products

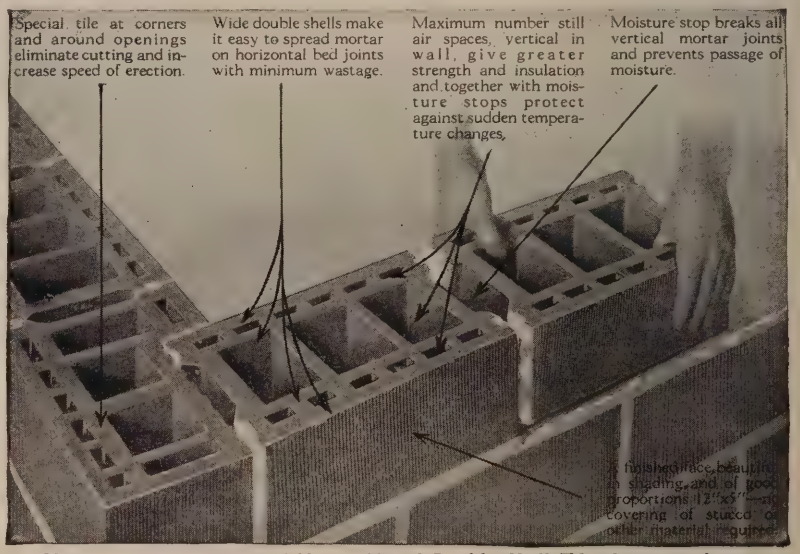
Natco Hollow Building Tile is being used more and more every year for the walls of the better type of low cost, fire safe, comfortable homes and garages. You get unusual speed and economy in erection, low upkeep, fire safety, decreased fuel bills with little or no depreciation at an extremely reasonable first cost.

General Advantages

With Natco Hollow Building Tile you save one-half the mortar, one-third to one-half the labor, with one-half the weight, along with a less number of pieces to handle. You not only save in weight but gain in heat insulation, health and sanitation because of dry walls, more rapid erection of building, with less load on frame and foundation.

Exclusive Advantages

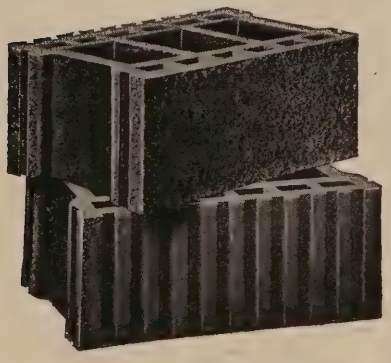
Only with Natco Hollow Building Tile do you get the double shell feature as illustrated at right. Here the wide shells at both interior and exterior walls insure perfect horizontal and vertical mortar joints. Moisture cannot penetrate hard burned clay tile. The still air spaces between the inner and outer shells prevent through mortar joints and thoroughly insulate the walls against cold, heat and moisture. As a result, homes and garages with walls of Natco Hollow Building Tile are truly warm in winter and cool in summer.



View of corner section of Natco Glazed Double Shell Tile showing advantages of double shell construction. These exclusive features are your insurance that any building you construct of Natco Double Shell Tile will be reasonable in first cost, firesafe, with no chance for heat, cold and moisture to pass through the walls.

Natco Glazed Double Shell Textile Low in First Cost

The varied tones of brown, ranging from a deep, rich brown to a dark chocolate along with the texture of the face itself, makes it possible for you to build a particularly inviting and pleasing home of Natco Double Shell Glazed Load Bearing Tex-Tile. Contrasts very artistically and effectively with white, black, cream or other colors of the mortar joints and trim. Furnished with face 5″ x 12″ for walls 8 in. thick. Combines beauty, durability, resistance to fire and decay, reasonable first cost, low upkeep and low heating cost to a remarkable degree.

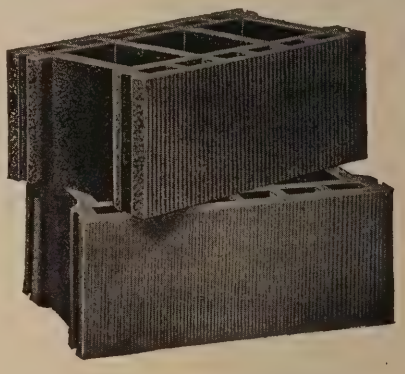


Natco Glazed Tex-Tile

8″x12″x5″ size only, for 8″ walls Outside face 5″x12″, "TEX" finish; inside surface, dovetailed scored. Here you have an exterior wall surface of uniformly rough texture with an interior surface scored to receive and hold regular interior plaster.

Natco Unglazed Double Shell Combed Face Tile Desirable

In variety of color and general appearance, Natco Unglazed Combed Face Double Shell Load Bearing Tile resembles high quality tapestry brick. It is supplied with two combed faces 5x12 in. for walls 6 and 8 in. thick. The large units of both Natco Unglazed Double Shell Combed Face Tile and Natco Tex-Tile are quickly and easily laid at great savings over other forms of masonry construction.



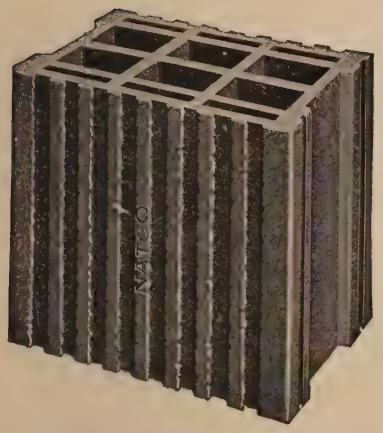
Natco Unglazed Double Shell Tile

6″x12″x5″ for 6″ walls, two 5″x12″ faces, combed
8″x12″x5″ for 8″ walls, two 5″x12″ faces, combed

You can choose the better of two faces for an exterior surface similar to rough face brick and an interior, rough enough for the application of the wall plaster directly to the tile surface.

For further details and literature, write to: **NATIONAL FIREPROOFING COMPANY,** Fulton Bldg., Pittsburgh, Pa.

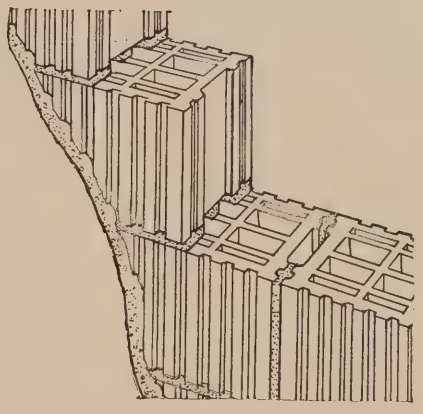
Natco Hollow Building Tile (Continued)



8" x 12" x 12" Natco Double Shell Load Bearing Tile. Double shell construction gives enduring strength and lasting comfort.

For Stucco Exteriors

Where a covering of stucco is desired, Natco Double Shell Load Bearing Tile is used. It has a 12 in. x 12 in. face with interior and exterior walls scored for direct application of plaster and stucco. Furnished in all widths for different thicknesses of walls. Applied to such a tile wall which does not shrink, warp, rust, sag or scale, stucco does not crack or come off. It is the logical wall on which to apply stucco.



Stucco applied to fire safe, permanent walls of Natco Double Shell Load Bearing Tile is held firmly and securely.



"Natco Header Backer Construction for brick exteriors."

Where a Brick Exterior Is Desired

Natco Double Shell Header Backer Tile is recognized by architects and builders as the ideal backing for brick, stone or other material. There are two units used—Natco Backer Tile and Natco Header Tile. The Natco Backer Tile is cut to convenient lengths to allow the brick work or other facing to be bonded into the Natco Header Tile with full header bond at any number of courses desired. The completed walls are light, thoroughly bonded, and at the same time are warmer and dryer than solid masonry walls, which rarely become thoroughly dry.

Quality

All types of Natco Hollow Tile are made of carefully selected clay, burned under the supervision of graduated ceramic engineers. On every genuine Natco Hollow Tile the name "Natco" is stamped indelibly for your protection. Look for it.

For Garages

The same qualities which make Natco Hollow Tile so satisfactory for a home make it ideal for private garages. Natco Glazed Double Shell Tex-Tile and Natco Unglazed Double Shell Combed Face Tile are especially suitable.

Write for Further Information

Our Engineering Department is at your service to prepare estimates from your plans or sketches of all Natco Hollow Tile that will be required **with costs** on any type of home you decide to erect. In addition, we shall make notations on plans or sketches showing how and where the tile is to be used most effectively and economically.

FOR ECONOMY

Concrete Building Products

FOR PERMANENCE

CONCRETE BLOCKS—CONCRETE TILE—CONCRETE BRICKS

For authoritative information on the advantages of building with concrete address any of the companies listed at foot of page 75.

Home Satisfaction In Concrete Masonry

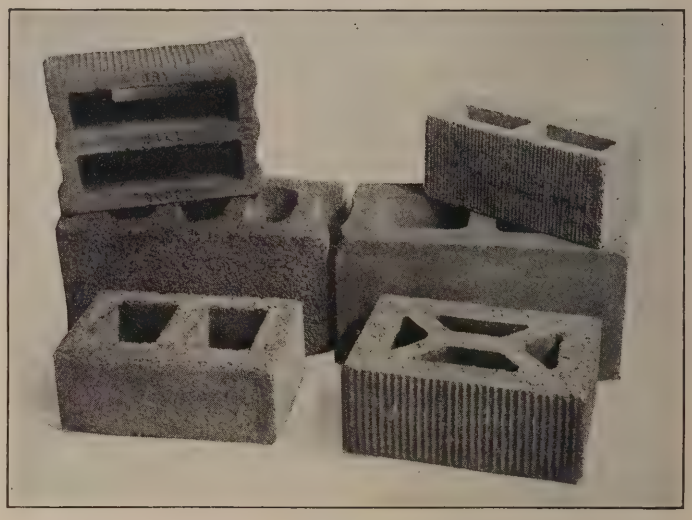
Since time began, home owning and building have marched side by side with man's upward progress. Always the tendency has been toward better, more permanent, more beautiful homes.

It is only natural therefore to find that masonry has usually been the preferred building material. In our own civilization masonry houses have always represented the best in home construction. Today the trend is noticeably to permanent homes; permanence as expressed through the use of masonry.

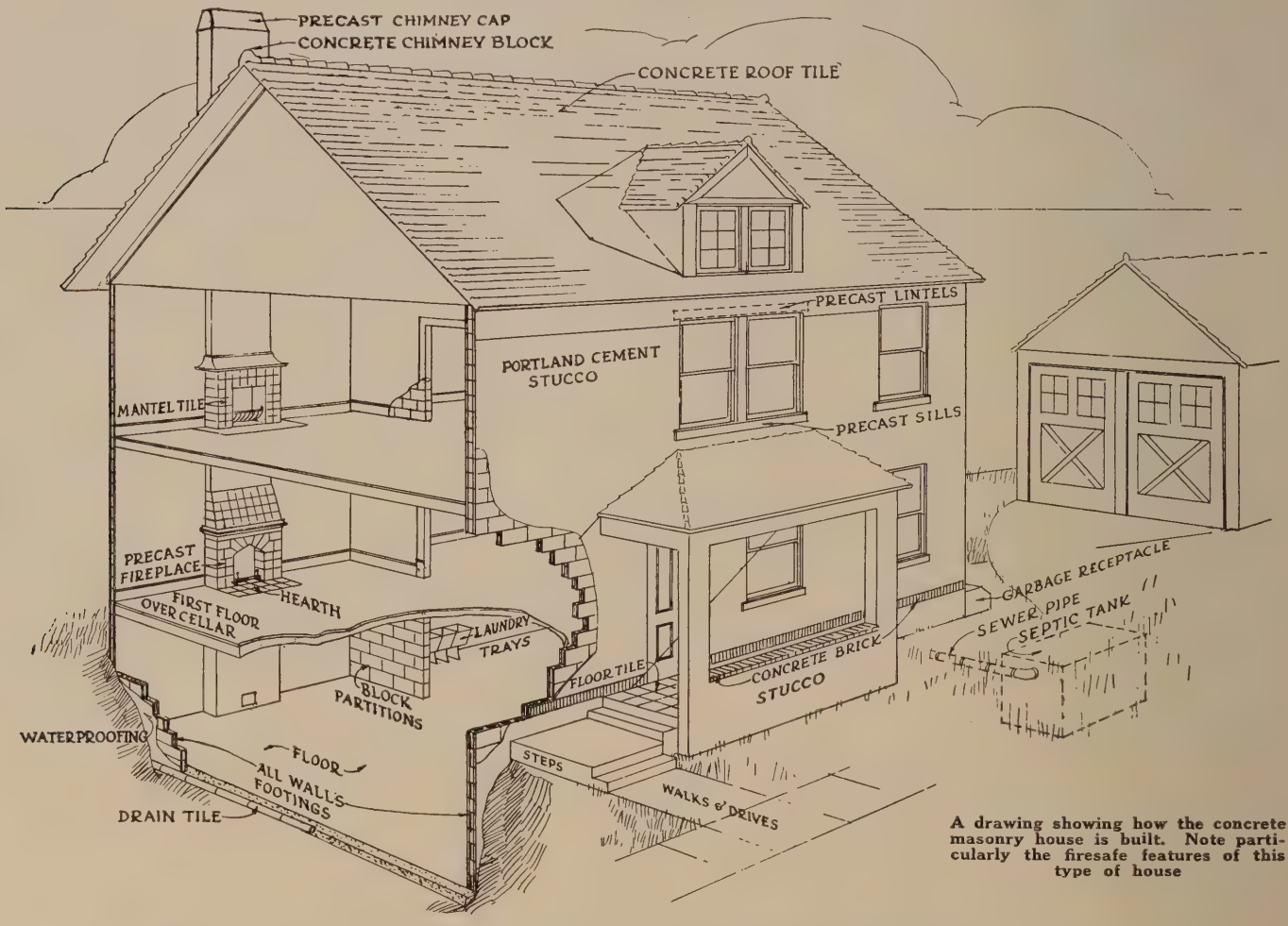
Of all the varied forms of masonry construction, concrete has enjoyed the most phenomenal popularity. Concrete block, tile and brick homes today are attracting the best thought and building skill of the land. The result is a type of house typically American, more permanent, more beautiful, more satisfying than even the masonry construction of older nations.

Your home, the house you build, must today measure up to new standards of excellence. If it is to express the best thought in home construction, it must be comfortable, beautiful and convenient.

How intimate to the new thought in home building is concrete masonry is readily demonstrated by the fact that the most pretentious homes and homes the man of only moderate circumstances alike are being built of this material.



Common types of Concrete Building Blocks and Concrete Building Tile



A drawing showing how the concrete masonry house is built. Note particularly the firesafe features of this type of house

For further details and literature, write to: **Any of the companies listed at foot of page 75**



House at Cambridge, Massachusetts. Trowel finished Cement Stucco on Concrete Blocks. An example of a large house of Concrete Block construction. For small houses, bungalows and garages see following pages

The Economy of Concrete Masonry

It is a well known maxim that if a man can afford a home at all, he can best afford a home which is permanent. Even for the builder with only a limited amount of money to spend the permanent house will be most economical in the long run. Such a type of construction is concrete masonry.

The first cost of the concrete masonry house is little, if any, higher than the cost of a house built of less enduring materials. Every builder knows that first cost is not the last cost of the house. Concrete masonry represents true economy since it combines low first cost and the practical elimination of upkeep expense.

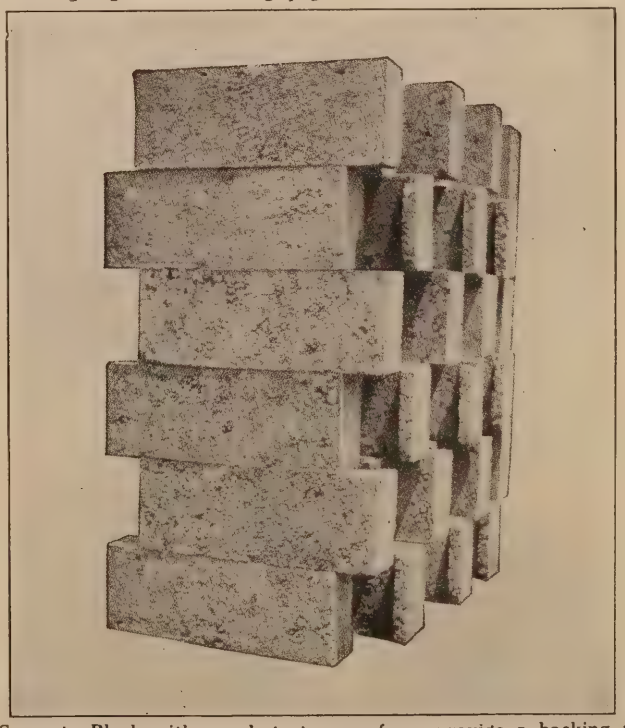
Concrete Masonry Is Adaptable

The spread of the concrete masonry house has known no limitations of climate or locality. Entire communities have been built of concrete masonry in the northernmost tier of states where winters are prolonged and changes of temperature are rapid; the most severe test of a building material.

Equally noteworthy is the wide adoption of concrete masonry to the climate of the southern states where temperatures go high and where drying winds and torrential rains exact their toll on materials. It is interesting to note that concrete masonry and portland cement stucco is the accepted building material in Florida. And so it is in California.

The Advantages of Concrete Masonry

Concrete masonry, whether it be concrete block or tile has brought a new type of wall construction into being. That type is the wall having air spaces incorporated within it. The advantage of this type of construction lies in the fact that the dead air space within the wall insulates the



Concrete Block with rough texture surfaces provide a backing to which Portland Cement Stucco clings tenaciously. The stucco will not crack nor separate from the wall

For further details and literature, write to: Any of the companies listed at foot of page 75



A CALIFORNIA BUNGALOW—Portland Cement Stucco finish on Concrete Block



A FLORIDA BUNGALOW—Portland Cement Stucco finish on Concrete Block

For further details and literature, write to: **Any of the companies listed at foot of page 75**

wall to passage of heat and cold. The concrete masonry house is cool in summer; warm and easily heated in winter.

The preference for this type of construction has brought forth many types of walls, but in concrete masonry these air spaces are a part of each unit. When the unit is laid up in the wall the air space is formed with the laying of the block or tile.

Many builders of concrete masonry do not furr the interior walls as the insulating air space prevents passage of moisture. This effects further building economy.

Strength Is Important

To withstand the effects of time and the elements the materials going into the walls of a house must possess strength. In concrete masonry construction this strength is inherent in the material. Concrete masonry walls do not depend upon bracing of construction features for strength for once laid the wall becomes practically monolithic, that is possessed of the strength of a solid wall.

Nothing Left to Chance

Those construction features which spell the difference between excellent and passable building are not left to chance when you build with concrete masonry. Construction detail are already provided for with the adoption of this material.

For example joist block are special units. Provision is made in these blocks for placing the joists and there is no chance for joist movement or mediocre construction which deteriorates with time.

Drafts and moisture are effectively prevented by the use of special jamb block, properly recessed to enclosed door frames and window boxes. Weather staining of walls around these openings are also prevented. Sills and lintels and other special masonry units are so designed as to eliminate leakage of air and moisture through the wall. These details, often slighted, are provided for when you specify concrete masonry.



HOUSE IN DULUTH, MINNESOTA

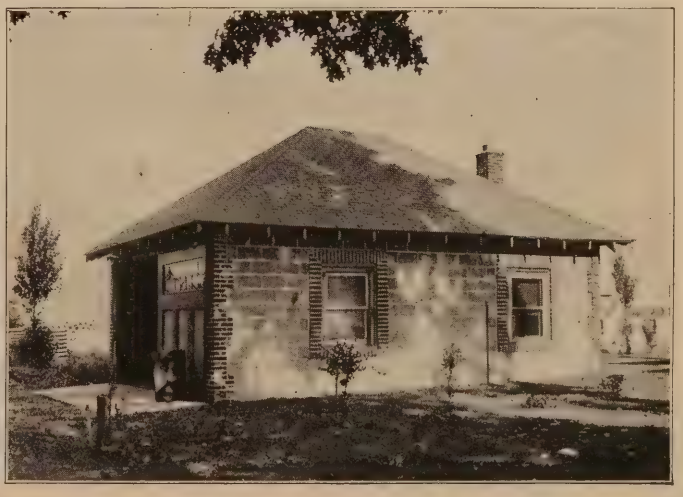
Built of Smooth Surface Concrete Blocks. In cold climates the hollow wall construction provided by Concrete Blocks results in a house that is easily heated, the dead air spaces in the wall furnishing the most efficient type of insulation. In warm climates these same air spaces insure a cool interior. Hence the wide use of Concrete Blocks in both cold and warm climates.





Hollow Concrete Block and Tile are the ideal materials for building garages quickly and economically





On the left is illustrated a Stucco finished Concrete Block garage with Concrete Roofing Tile, while on the right is shown a garage of Faced Concrete Block with brick trim.

For further details and literature, write to: **Any of the companies listed at foot of page 75**



A group of small houses built of Concrete Block. The same houses in course of construction are illustrated below



The walls of concrete block houses are erected rapidly and with a minimum of labor

For walls above grade, a thickness of 8 inches is standard for houses one or two stories in height. Basement walls are commonly made 8 or 10 inches thick for bungalows and 10 or 12 inches thick for two-story dwellings. The 5 by 8 by 12-inch building tile has a volume equal to 6 brick and walls may be built either 8 or 12 inches wide, according to the way the unit is turned in the wall. The height of 5 inches equals two course of brick. Concrete Block and Tile are particularly suitable for residence construction

For further details and literature, write to: **Any of the companies listed at foot of page 75**



Oak Park (Illinois) Home of A. J. R. Curtis, of the Portland Cement Association Built of Concrete Blocks

Concrete Masonry Is Firesafe

More and more attention is being given today to the matter of fire safety. Building codes are compelling it, good construction is demanding it. The fire safety of concrete masonry is well known. Hundreds of tests and actual fires have shown that this material possesses a very high degree of protection. Occupants of the concrete masonry house know that their home is as fire resistive as it is possible to build. And they do not pay more for this added security, in fact they pay less, for their insurance rates are lowered.

Low Depreciation Is Important

Most distressing to the home owner is the knowledge that his house is depreciating. The fall of a step, the decadence of the exterior, the general loosening of the frame and the interior walls and fixtures bring to mind the fact that the house is growing old.

To build against this is the aim of every owner. With the use of concrete masonry, whether block, brick or tile depreciation is eliminated for this type of house never grows old. Years of usage, years of action by the elements, only serve to mellow and make the concrete house stronger, for this material is permanent.

This permanence makes the resale value of the house high. Permanence insures that the house will never present the run-down at the heel appearance so detrimental to a sale. And high resale value makes home satisfaction more assured.

Stucco Adds to the Beauty of Concrete Masonry

Side by side with the growing use of concrete masonry has marched the advance of portland cement stucco. With this material which forms itself as a part of the masonry wall, the individual owner can express his own personality through the use of one of the many varied textures or colors. There are no limitations to the variety of texture or color other than the dictates of the architect and the owner.

Whatever the type or style of house built there is a texture and color which will enhance that beauty in line and design. Stucco is a new art, it is typically American in its adaptations and its beauties. Combining portland cement stucco with concrete masonry insures a house which is out of the ordinary in appearance, permanent, fire safe, and always beautiful.

Concrete Throughout

For the builder who seeks the ultimate in home construction the all-concrete house provides the maximum of comfort, permanence and safety. Concrete floors are noiseless, everlasting, and are adaptable to nearly any sort of decorative treatment. They can be covered with hard wood just as an ordinary type of floor.

Concrete tile roofs are beautiful, permanent, and aside from breakage through some exterior blow will last for ever. Their color is manufactured in and never fades. They are proof against the weather, safe from fire and economical.

Essentially Modern

The concrete masonry house is essentially modern. For congested urban districts it provides fire safety, beauty comparable with the very highest building practices, economy and resale value.

For the builder in less closely settled areas the concrete masonry house provides safety against fire, is adaptable to all locations or settings, cool and warm and permanent.

Combined with portland cement stucco the concrete masonry house whether block, brick or tile represents a type of house especially adopted to American standards of living and expressing the best in home building thought.

Anchor Concrete Machinery Co.,
Adrian, Mich.

Ideal Concrete Machinery Co.,
Cincinnati, Ohio

Miles Manufacturing Co.,
Jackson, Mich.

Thomas W. Noble & Co.,
435 N. Michigan Ave., CHICAGO

For further details and literature, write to: **Any of the companies listed above**

Anchor Concrete Block, Brick and Tile Machinery

Made By

ANCHOR CONCRETE MACHINERY CO.

Columbus, Ohio **Adrian, Mich.**



The Hoover "Home Sweet Home" built last year in Washington, D. C., according to the Hoover Code. Anchor Stripper Blocks used exclusively.

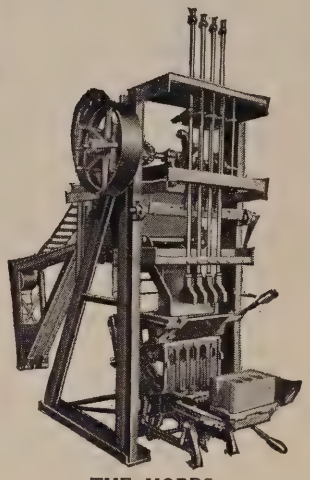
Trade Mark



Another model home erected in Cleveland. Promoted by the Cleveland Concrete Products Association. Anchor Blocks used exclusively.

Products

A complete line of equipment for the manufacture of concrete block, brick and tile. This equipment, although perfectly adapted to the small plant is used in three of the largest cement products plants in the world, each of which operate batteries of Anchor machines.



THE HOBBS

The great general purpose machine, used everywhere for faced blocks.

Every week increasing numbers of Building Supply Dealers and Contractors are equipping to make their own concrete units. They have the materials, the labor and the right connections for marketing.

The Anchor Line

Years of experience in the manufacture of Concrete Products Machinery has enabled us to produce a line that is practical, efficient, economical and complete.

These features have won the approval and endorsement of the leading Concrete Products Manufacturers everywhere.

Increasing Use of Concrete Blocks, Brick and Tile

Concrete blocks, brick and tile have lived down the unfavorable reputation acquired in the early days of the industry when inferior products were all too common. Architects and builders everywhere today recognize the great merit of these units as now made. The two model homes illustrated above are evidence of this.

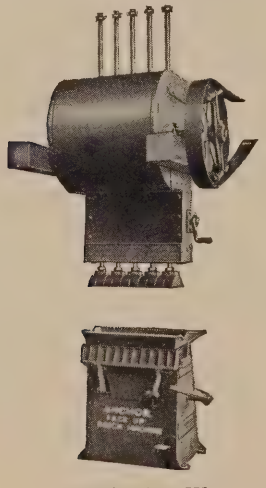
Concrete products lend themselves to all types of construction. They are a perfect base for stucco. Their cost is less than any other type of masonry, and but little more than that of wood.

The Anchor System

The Anchor System of Independent Units is recognized as the solution to profitable production.

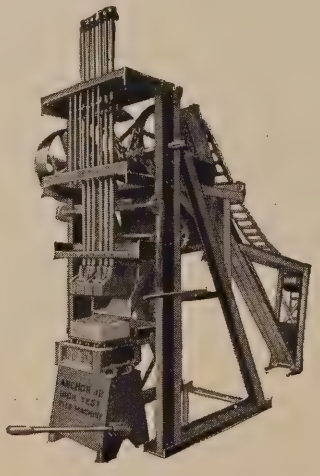
The Anchor System allows for expansion without depreciation of your present machinery. It assures flexible continuous output on a small investment.

Let us know your requirements. Hundreds of Concrete Products Plants, large and small, have installed the Anchor System. It's the best system for you. Write for Catalogue.



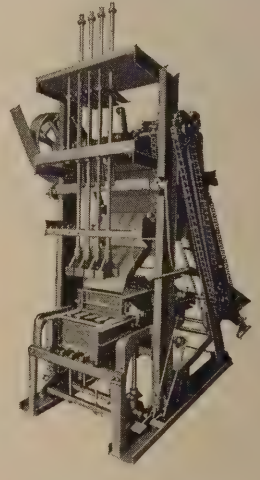
ANCHOR BRICK MACHINE

Made in two types—face up and face down



ANCHOR HIGH TEST TILE MACHINE

For the manufacture of standard building tile.



ANCHOR STRIPPER BLOCK MACHINE.

For the manufacture of plain blocks.

For further details and literature, write to: **ANCHOR CONCRETE MACHINERY CO., Adrian, Mich.**

"Cincrete" Cinder Concrete Building Units

CINCRETE
TRADE MARK
(Reg. U.S. Pat. Off.)

Patents Owned by
STRAUB CINCRETE CORPORATION,
120 West 42nd Street, NEW YORK, N. Y.

MANUFACTURED BY THE FOLLOWING COMPANIES

ALBANY, N. Y., Finch & Ostrander, Inc.
BINGHAMPTON, N. Y., Straub Building Units, Inc.
BROOKLYN, N. Y., Cinder Tile Company, Inc.
ELMIRA, N. Y., Elmira Building Units, Inc.
JAMESTOWN, N. Y., Jamestown Block & Tile Co.
NEW YORK, N. Y., Cinder Tile Company, Inc., 250 Park Avenue
ROCHESTER, N. Y., Rochester Cinder Block Corp.
CAMDEN, N. J., Concrete Specialties Co.
HOMESTEAD, N. J., Hudson Fireproof Block Co., North Bergen
JERSEY CITY, N. J., Cinder Brick and Tile Co., Adjoining Public Service Station, Marion Plant
RIDGEFIELD PARK, N. J., Bergen Building Block Co.
TRENTON, N. J., Concrete Specialties Co.
WESTFIELD, N. J., Hudson Fireproof Block Co.
ALLENTOWN, PA., Hollywood Building Block Co.
ALTOONA, PA., Juniata Reconstruction Stone Co., Juniata, Pa.
APOLLO, PA., Apollo Steel Co.
BRAEBURN, PA., Apollo Steel Co.
BUTLER, PA., Shuffdin & Green
ERIE, PA., Erie Patent Block Co., Inc.
GREENBURG, PA., Building Materials Co.
GREENVILLE, PA., A. Dambacker & Sons
HARRISBURG, PA., Harrisburg Building Block Co.
HOUSTON, PA., Huston-Canonsburg Cinder Block Co.
JOHNSTOWN, PA., Art Stone Block Co.
LANCASTER, PA., Lancaster Concrete Tile Co.
LEWISTOWN, PA., James L. Shreffler
MT. POCONO, PA., L. T. Smith
NEWCASTLE, PA., Straub Cincrete Co.
NEW KENSINGTON, PA., Straub Cincrete Co.
PHILADELPHIA, PA., Philadelphia Partition & Building Block Co.
PITTSBURGH, PA., Straub Cincrete Co., 908 Park Building
POTTSVILLE, PA., Pottsville Building Block Co.
READING, PA., Berks Building Block Co.
SPRINGDALE, PA., Berks Building Block Co.
TARENTUM, PA., Frank H. Thompson
UNIONTOWN, PA., Hawkins-Paulson Co.
WARREN, PA., Wilson-Wetmore Lumber Co.
WAYNESBURG, PA., McCormick & Drury
WILKESBARRE, PA., Nepenna Building Materials Co., Kingston, Pa.
WILLIAMSPORT, PA., Delvan Block Co., So. Williamsport, Pa.
YORK, PA., York Patented Building Block Co.
WILMINGTON, DEL., Cinder Block Corp.
BALTIMORE, MD., Cinder Block Corp.
WASHINGTON, D. C., Washington Concrete Products Corp.
NORFOLK, VA., Norfolk Building Block Corp., Fairmont Park
RICHMOND, VA., Richmond Patent Building Block Corp.
CLARKSBURG, W. VA., Cincrete, Inc.
FAIRMONT, W. VA., Fairmont Wall Plaster Co.
(Fourteen sub-licenses and distributors in West Virginia)
HARTFORD, W. VA., Hartford Cinder Block Co.
PALMETTO, FLA., Tinkham & Kilburn
POMEROY, OHIO, Hartford Cinder Block Co.
SPRINGFIELD, OHIO, Springfield Cinder Block Co.
WARREN, OHIO, Straub Cincrete Co.
YOUNGSTOWN, OHIO, Peter Klug; Garland Block & &Sand Co.
INDIANAPOLIS, IND., Straub Cinder Block Co.
DETROIT, MICH., Detroit Cinder Block & Tile Co.
FLINT, MICH., Flint Cinder Block & Products Co.
EAST ST. LOUIS, ILL., Atlas Cinder Block Corp.
FOREST PARK, ILL., Illinois Cinder Block Co.
MOLINE, ILL., Moline Cast Stone Co.
MILWAUKEE, WIS., Cincrete Products Corp.
KANSAS CITY, MO., Cinder Block Co.
ST. JOSEPH, MO., Cinder Block Co.
ST. LOUIS, MO., Cinder Block Co., Clayton, Mo.
OMAHA, NEB., Ideal Cement Stone Co.
DENVER, COL., Cinder Block Co.
SEATTLE, WASH., Concrete Structural Units, Inc.

Products

FOUNDATION and WALL BEARING BLOCKS; PARTITION TILE; BRICK; REINFORCED LINTELS; SILLS; CHIMNEY BLOCKS, and FLOORS ARCH BLOCKS.

Patents and License

The manufacture, use and sale of Straub "Cincrete" Cinder Concrete Building Units is licensed under the Francis J. Straub U. S. Patents 1,212,840 and 1,399,325 on Process and Products. Other patents pending. Patent No. 1,212,840 has been broadly sustained by unanimous decision of U. S. Court of Appeals. Responsible parties will be licensed in open territories.

A PATENTED COMPOSITION OF CINDERS AND CEMENT, COMPRESSED AND MOULDED INTO STANDARD SHAPES, IN STANDARD SIZES.

As good as wood for nailing, and can be cut to size. Chased and channeled for pipe and conduits without fracture.

Advantages

Costs—These will vary according to local conditions, dimensions of common brick, and 5 to 15% compared but normally a saving in finished wall construction can be figured from 25 to 40% compared to same wall with clay tile. One 8x8x16-in. block displaces 12 bricks and requires about one-quarter the mortar. Plastering direct is recommended. Other economies will be discovered under other subheadings.

Strength—Our licenses are required to manufacture blocks having an average crushing strength of 800 lbs. per sq. in. gross area, which is equivalent to approximately 1,200 lbs. per sq. net area. The ratio of unit strength to wall strength of Cincrete blocks is from 57 to 76%. This is the highest of any known masonry and in consequence carries a corresponding safety factor.

Tests—Tests made by Underwriters' Laboratories, Inc. (page 41 of report of tests on Straub Blocks), Bureau of Standards (U. S. Government), Columbia University, Yale University, Rutgers College, Johns Hopkins University, Lewis Institute, Pittsburgh Testing Laboratory, E. L. Conwell & Co., Philadelphia, Pa., Detroit Testing Laboratory Ohio State University, University of Illinois, Washington University, Kansas City Testing Laboratory. On request, the New York City office will gladly send copies of above mentioned tests and numerous other tests and pertinent data.

Breakage—Breakage is negligible and dumping from trucks is practiced by some plants.

Fireproof—The official tests, made for the National Board of Fire Underwriters' Laboratories, confirm the many private tests and results of actual fires. We claim there is no masonry material possessing equal fire resisting and fire retardant properties. There is no cracking or spalling under the most violent changes of temperature as when water is turned on to a white hot wall. See page 20 Underwriters' Laboratories report, Conwell Laboratory report on Reading fire test and other data, for comparison with various types of masonry. Cincrete units always re-usable after a fire. Their loss of strength is negligible. They have the lowest rate of heat conductivity of any masonry.

Dampproof—The illustration below shows the slight absorption and lack of capillarity after 48 hours' immersion. This unique quality is also of importance in producing a stronger mortar joint, the moisture is not drawn out of the mortar as with brick or sand blocks. For the same reason, stucco and plaster retain full strength on Cincrete units and require no application of water before mortar, plaster and stucco is applied. The initial suction or absorption is rapid, but after a short time ceases. This favorably affects winter laying of Cincrete units.



Dampproof
Illustrates absorption after hours—no further absorption.

"Cincrete" Cinder Concrete Building Units (Continued)



MODEL HOUSE of the DETROIT NEWS

The exterior walls, constructed entirely of Cincrete Units from foundation to roof cost only 5% more than frame construction. 400 duplicates of this Model House have been built!

The house shown above was designed by a committee of Detroit architects appointed by the Michigan Chapter of the American Institute of Architects.

It was erected under the auspices of the Detroit News, as the central factor in their "Better Homes Campaign," organized by Major Charles D. Kelley, of the News' Homebuilding Department.

The successful bidder for the construction of the model house was required to erect at least twenty replicas for private ownership, should that many be required, at the same price as the original.

Instead of the twenty houses hoped for, the Model House inspired orders for nearly four hundred houses from the public.

The half timbering and interior trim are nailed directly to the Cincrete Block Walls, saving considerably in cost of construction. The exterior walls, constructed entirely of Cincrete Blocks from foundation to roof, cost only 5% more than if built of frame.

This house is now the residence of Bert Thomas, creator of "Mr. Straphanger" and cartoonist of the Detroit News.

Non-conductor of Heat and Cold—Cincrete unit walls never "sweat"; are rotproof and verminproof; no mold forms, and decorations are never injured where plaster has been applied direct to exterior walls in the severest climate. Less fuel required to heat; cooler in summer. Ideal for icehouses, large refrigerators, refrigeration plants, heating ovens, dry kilns, etc.

Stucco—the rough texture affords a perfect key for plaster and stucco. The same coefficient of expansion in base and stucco explains why stucco does not crack and spall on Cincrete units. Ideal suction and mechanical bond.

No Through Mortar Joints—A common fault of other types of masonry is the through mortar joint, which readily conducts moisture, heat and cold through the wall. The cinder unit itself is a non-conductor, not depending on the large air spaces as do other forms of hollow masonry.

No Furring Required—Having the lowest capillarity and conductivity of any masonry, furring and lathing are not required. Stucco and plaster are applied direct; one-third less plaster required on account of omission of scratch coat and more uniform surface.

Weight of Wall—A cubic foot of completed wall weighs less than any known masonry of equal strength.

Weight—Forty per cent lighter than standard hollow cement blocks; 60% lighter than brick, and 5 to 10% lighter than hollow clay tile.

Rapid Laying—Light weight, uniformity, convenient and small buttering surfaces compared to solid units, contribute to easy, rapid and economical wall erection. Buttering surfaces larger than clay tile, therefore, stronger and more substantial; less waste of mortar and time in laying.

Nailing—As good as wood for nailing; holding power is equal to yellow pine. Nails never rust. See Pittsburgh Testing Laboratory report No. 48544. Wood grounds and trim can be thoroughly secured by toenailing. Pipe hangers and other supporting members can be readily secured by means of lag screws, expansion bolts, etc.

Cutting—Cincrete units can be cut to size, chased and channeled for pipe and conduits without fracture.

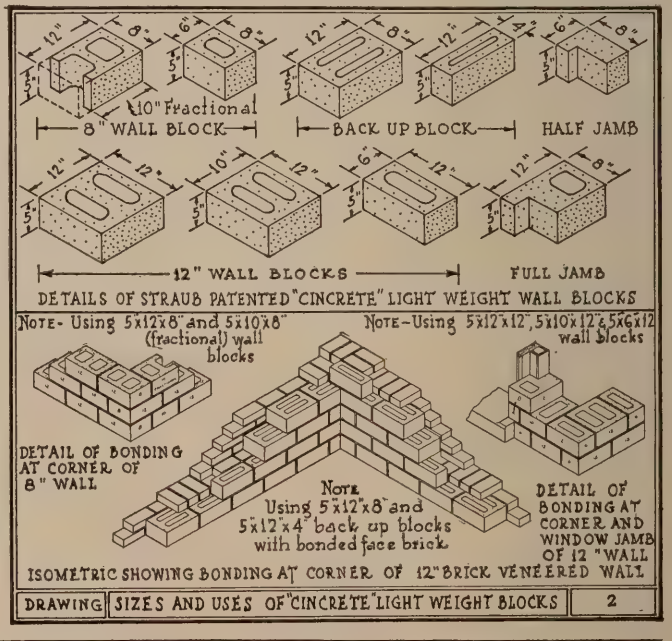
Corners—Details on this and previous page show several methods, all retaining full insulating value.

Steel Sash Installation—Grooves are moulded into jamb blocks to admit steel window frames. Two lintels to an opening provide this advantage without cutting or channeling.

Lintels—Reinforced lintels of cinder concrete provide all the advantages of strength, lightness, nail-ability and dampproofness. For standard sizes see Drawing No. 1. Specials on order.

Sills—Precast cinder concrete sills have the advantages of lightness, toughness and dampproofness. For standard section see Drawing No. 1. Specials on order.

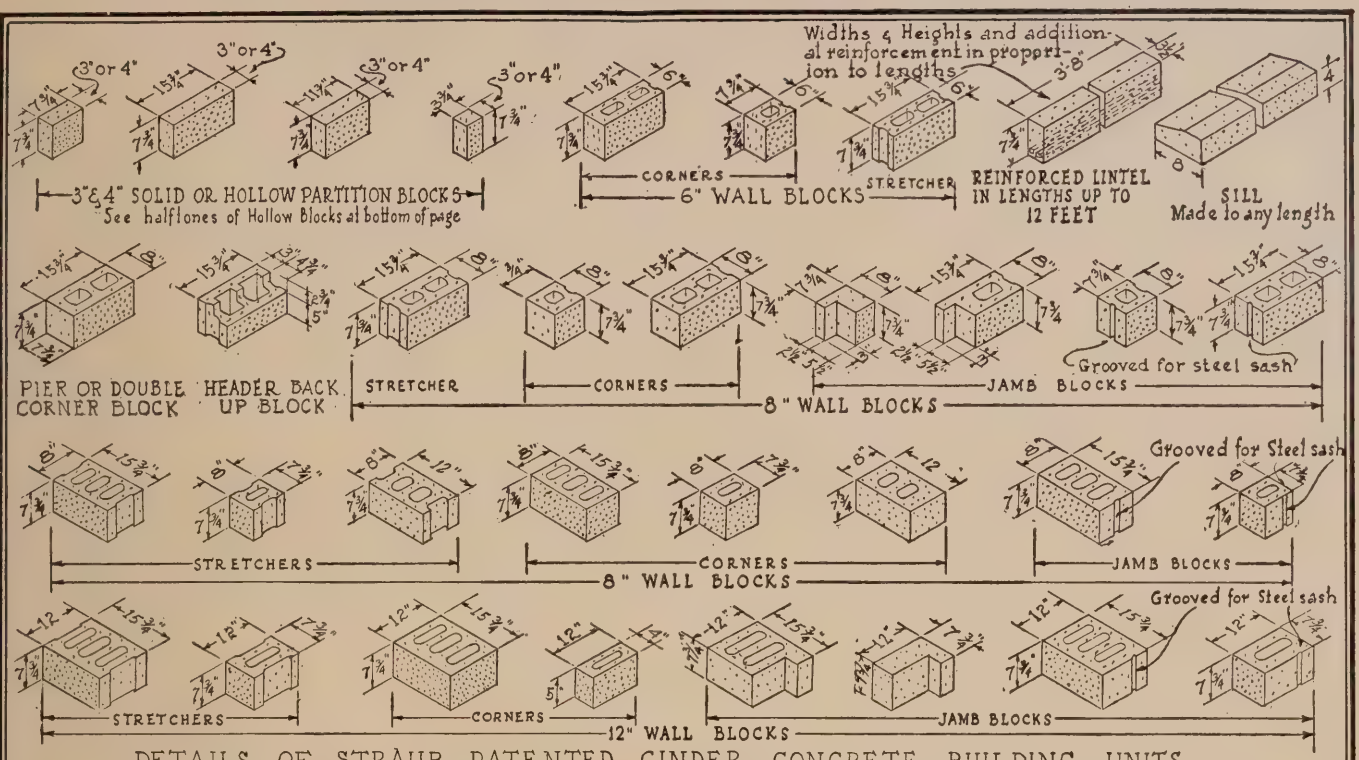
Details, Catalogues and Data—Each plant is in position to submit details and give required information to architect or engineer. Address the nearest plant or New York office.



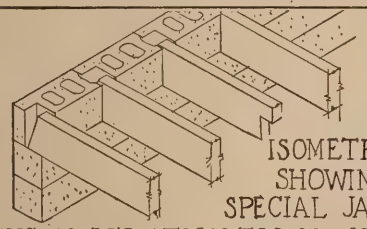
DRAWING | SIZES AND USES OF "CINCRETE" LIGHT WEIGHT BLOCKS | 2

For further details and literature, write to: **STRAUB CINCRETE CORPORATION,** 120 West 42nd St. NEW YORK CITY

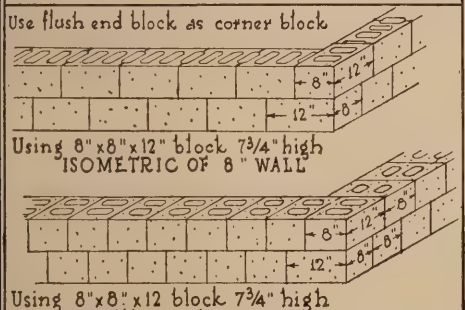
"Cincrete" Cinder Concrete Building Units (Continued)



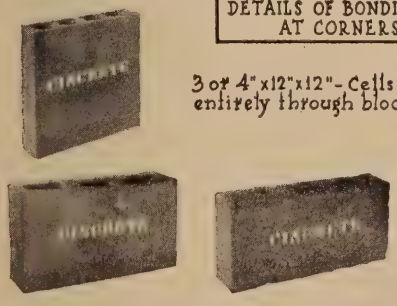
DETAILS OF STRAUB PATENTED CINDER CONCRETE BUILDING UNITS



ISOMETRIC SHOWING SPECIAL JAMB BLOCKS IN RELATION TO WOOD JOIST



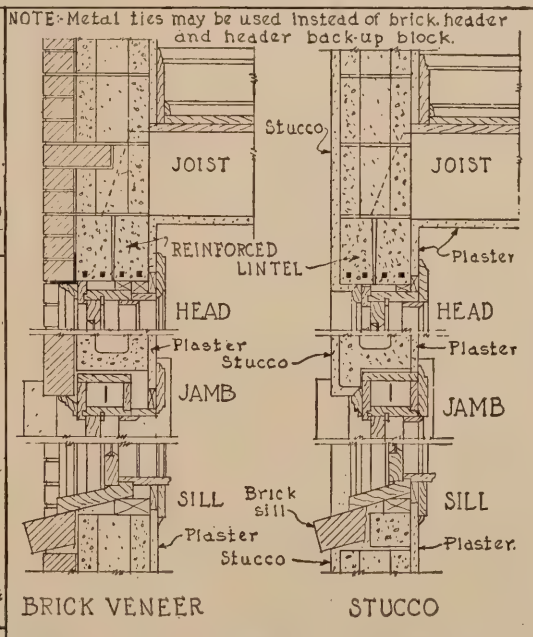
DETAILS OF BONDING AT CORNERS



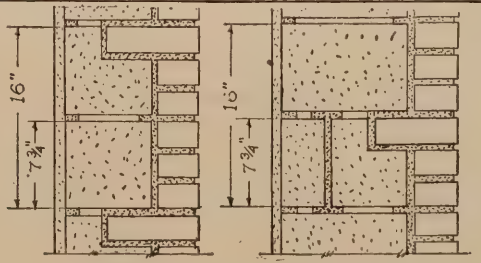
3 or 4"x12"x12"- Cells entirely through block

3" or 4" wide - 8" or 9" high - 16" or 18" long. Cells entirely through tile or top closed for solid mortar bed as ordered

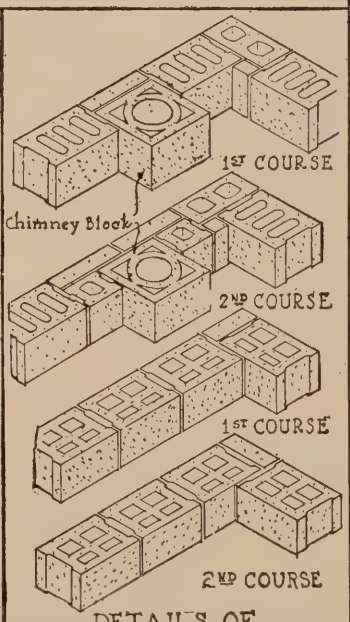
HOLLOW PARTITION TILE



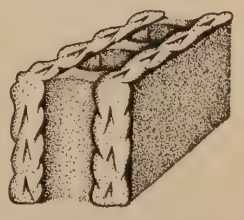
WALL SECTIONS SHOWING WINDOW DETAILS



METHOD OF BACKING FACE BRICK.



DETAILS OF BONDING AT CORNERS.



Block is buttered on outside and inside edges - ribs are left free of mortar

MORTAR JOINTS

DRAWING	SIZES AND USES OF "CINCRETE" CINDER BUILDING UNITS	1

For further details and literature, write to: **STRAUB CINCRETE CORPORATION** 120 West 42d St., NEW YORK CITY

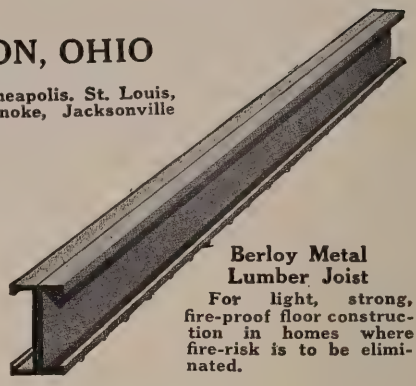
BERLOY METAL LUMBER

Manufactured by

THE BERGER MFG. CO., CANTON, OHIO

Branches: New York, Philadelphia, Boston, Chicago, Minneapolis. St. Louis, Kansas City, Dallas, San Francisco, Los Angeles, Roanoke, Jacksonville

BERLOY



Berloy Metal Lumber Joist
For light, strong, fire-proof floor construction in homes where fire-risk is to be eliminated.

Eliminating Dwelling Fires

96% of all dwelling fires originate on the interior. More than 90% of these are traceable to the heating plant or wiring in the basement. One home burns for every four built in this country. Berloy Metal Lumber in the first floor construction of dwellings eliminates all possibility of loss from fire originating in the basement.

Easily Erected

In simplicity of design and ease of erection, Metal Lumber rivals wood. The construction consists of pressed steel joists and studs used as load carrying members, installed in conjunction with cement, concrete and plaster. A light 2 inch concrete fill used over the joists and between nailing strips makes a fire-proof floor without excess weight or waste of space. A 7/8" plaster ceiling may be applied on Berloy Metal Lath attached directly to the bottoms of the joists by prongs on the joists provided for this purpose. Metal Lumber is light and easily handled, involving no high labor costs.

Erecting Procedure

Metal Lumber joists are easily handled by two men. No contractor will have the slightest difficulty with the construction.

The eight simple operations are as follows:

1. Installing light weight, easily handled joists at from 16 to 24 inches on centers, supported by wall or beam bearings.
2. Lacing and nailing 1 inch 20 gauge galvanized steel bridging to hold joists in position. (See picture below).
3. Nailing sheets of metal lath to tops of joists.
4. Nailing 2"x2" wood nailing strips to the tops of the joists.
5. Pouring a 2 inch concrete fill between sleepers.
6. Installing the floor finish.
7. Securing the ceiling lath to the bottom of the joists by means of prongs.
8. Plastering the ceiling on the metal lath base.

No form work is required with Metal Lumber and Metal Lath. No special equipment is needed for handling.

The resulting floor and ceiling are fire-proof, sound-proof, crack-proof and permanent, and the cost is very reasonable.

No Difficulties for the Contractor

The erection of Berloy Metal Lumber involves no problem for the contractor. Every piece comes cut to fit and plainly marked to correspond with the working drawings. It is merely necessary to place the joists, a quick and easy operation, and proceed with the work.

For Partitions

H-studs or channel studs of various gauges and shapes are furnished for practically any carrying partition requirement.

For non-supporting partitions, a fire-proof, sound-proof partition only 2 inches thick can be made by applying Berloy Metal Lath to Berloy Cold-Rolled Channels. A great saving in space is thus effected at no sacrifice in strength.

Metal Lumber studs are supported and held in place top and bottom by channel track to which they are secured.



Applying sheets of Berloy Ribplex to Metal Lumber floor joists. No form work is necessary for concrete floor. Note bridging which holds joists in position.

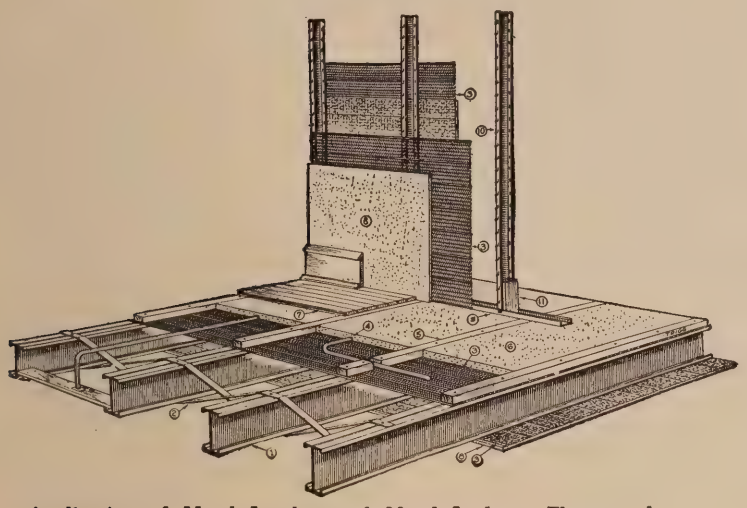


Pouring light concrete slab between nailing strips to which wood finish will be applied. These pictures give a good idea of the simplicity of Metal Lumber Floor Construction.

BERLOY METAL LUMBER (Continued)

Manufactured by

THE BERGER MFG. CO., CANTON, OHIO



Application of Metal Lumber and Metal Lath to Floors and Partitions.

KEY

(1) Berloy Metal Lumber—I—Joists
(2) Metal Cross Bridging
(3) ⅜"—Berloy Ribplex Metal Lath
(4) Electric Conduits
(5) Wood Nailing Strips
(6) Concrete Fill
(7) Finished Wood Floor
(8) Plaster
(9) Berloy—"B" Channel Socket Strip
(10) Berloy—"B" Channel Studs
(11) Wood Nailing Block.

Specification for Metal Lumber Construction

Thickness of steel used in joists and studs in supporting partitions, shall in no case be less than .072 inches and the lath not less than No. 28 U. S. Standard Gauge.

All pressed steel furnished for floors and supporting partitions must be accompanied by erection drawings showing the location, size and character of the members to be used.

All Metal Lumber pressed steel sections to be hand dipped in a special rust-resisting paint after forming and before shipment. All expanded metal lath to be given one coat of hand dipped paint.

Floors

Floors to be constructed of size and thickness of pressed steel I-joists as shown on drawings, spaced as indicated, and bridged laterally every one-third length of span with 1-inch No. 20 gauge galvanized bridging. This bridging to be secured by 3d nails driven into the webs of the joists. On top of the joists, after bridging has been applied, attach Berloy Ribplex or Berloy Diamond Mesh Metal Lath, securing it by large head nails driven into web of joists. Ceiling lath to be applied to the bottom flange by means of prongs provided for the purposes, or wired through holes punched in the flanges of the joists. Directly on top of the joists and parallel thereto apply 1¾x1¾ inch wood nailing strips, attaching them to joists by nailing.

Concrete

Top layer of lath to be covered with 1¾ inches of concrete, consisting of 1 part Portland cement, 2½ parts sand and 5 parts broken stone, slag or clean gravel—the maximum size of which will pass through a ¾ inch ring. This concrete to be applied comparatively dry and directly on top of the lath, without forms, being floated to an even surface.

For Use With Metal Lumber

The use of metal lath is essential with metal lumber construction, to obtain in full measure the fire-safety, economy and low dead-load of this construction.

The various types of Berloy Metal Lath have been designed specifically to meet all requirements of load and joist spacing where Berloy Metal Lumber is used.

The application of the lath is a rapid and easy process. The stiffness of Ribplex sheets eliminates sagging when the concrete is placed, and does away with the necessity for form work of any kind, providing all the centering necessary without additional support.

Berloy ⅜ inch Ribplex

Designed for use where Metal Lumber joists are spaced from 19" to 24". The ribs are ⅜ inches high, spaced 8 inches on centers. The ribs give great stiffness to the sheets. ⅜ inch Ribplex meets all ordinary requirements for floor and partition construction.

Berloy ¾ inch Ribplex

A heavy, stiff lath of great strength for use with exceptionally wide spacing of Metal Lumber joists. It is also used in one method of solid partition construction and for other purposes where great strength is required.

Berloy Diamond Mesh Metal Lath

Can be used satisfactorily where Metal Lumber joists are spaced from 12 to 16 inches on centers, but its principal function is in ceiling construction, whether the ceiling is applied on pencil rods attached to the joists or suspended on Berloy Cold Rolled Channels. Diamond Mesh Lath is easily formed and bent, and works out to excellent advantage in covering beams and other projections, below the ceiling level.

MAGNESTONE STUCCO

Made by

AMERICAN MAGNESTONE CORPORATION

SPRINGFIELD, ILLINOIS

Other Plants and Sales Offices at BROOKLYN, N. Y.; KANSAS CITY, MO. and OTTAWA, ILL.

For stucco work use Magnestone Stucco and you will never be disappointed with the result.

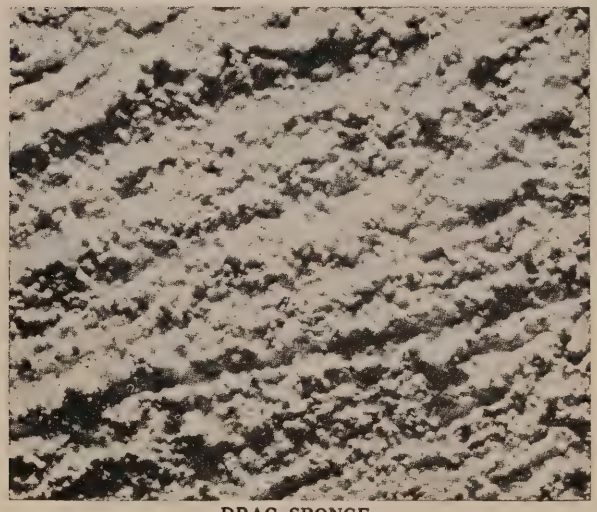
This superior product comes in 100 lb. bags, ready to mix on the job, and may be had in the following colors: White, Cream, Buff, Grey, Shell Pink and Light Green.

For beauty, durability, easy working qualities and coverage you find Magnestone Stucco unsurpassed.

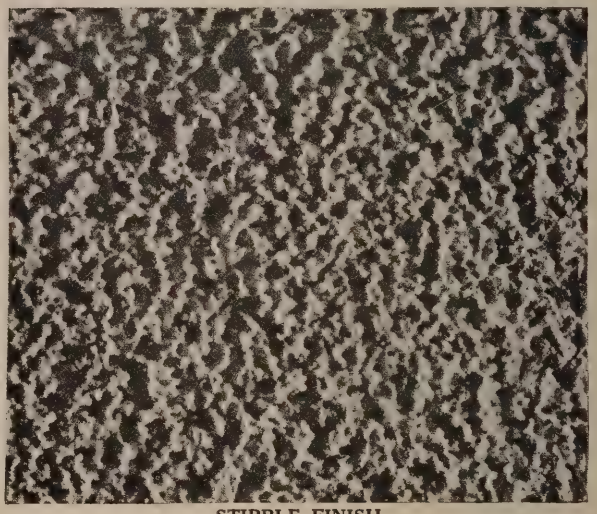
Write today for descriptive literature and get the facts about the stucco that is famous for QUALITY, ECONOMY and SERVICE.



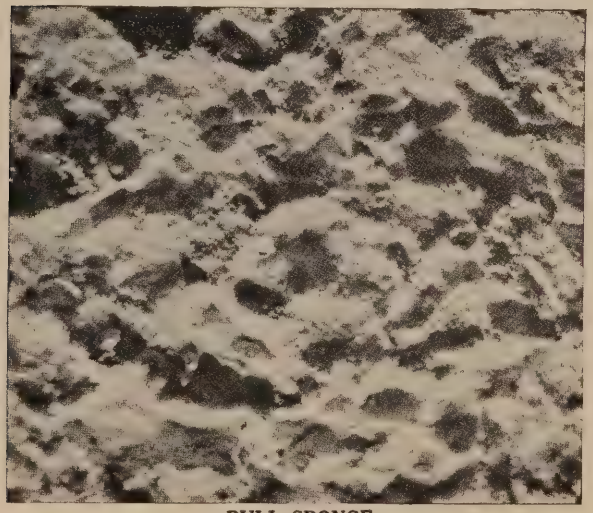
TROWEL FINISH
This finish is obtained by using a light sweep of the front end of an ordinary steel trowel.



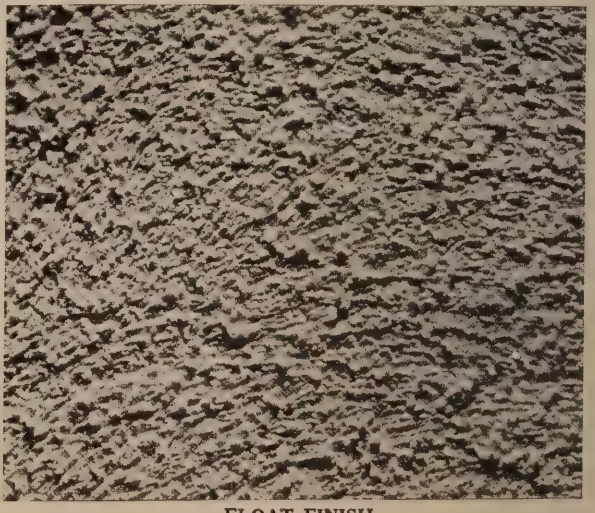
DRAG SPONGE
This effect can be obtained by dragging a clean sponge lightly over the surface of Roman Finish using a circular motion.



STIPPLE FINISH
This is produced by touching the mortar lightly with a whisk broom or a piece of board in which small finishing nails have been driven.



PULL SPONGE
Touching a sloppy mortar with a clean sponge and pulling sponge away will give this texture.



FLOAT FINISH
A wood or carpet float on a mortar which is partially set using a circular motion will provide this effect.

For further details and literature, write to: **AMERICAN MAGNESTONE CORPORATION, Springfield, Ill.**

FLINT ROCK All Mineral STUCCO—ARCHITEX

Manufactured By

THE FLINT ROCK STUCCO COMPANY, INC.

Manufacturers of Stucco and Granite Boulders, Dashes and Aggregates

GENERAL OFFICES

260-264 Fourth Street, Arcade Building

DAYTON, OHIO

Products

ARCHITEX FINISH in colors (Stucco).

FLINT-ROCK ALL-MINERAL STUCCO.

GRANITE DASHES, AGGREGATES and BOULDERS.

For KEYLOCK BASE for stucco and plaster, see page 98.

Architex Finish (Stucco)

Flint-Rock's Architex Finish, best physically and architecturally, satisfies the demand for color planning of stucco in home construction. It has been created because of the influx of Italian and Spanish architectural design. It enables every architect and home builder to fulfill his own individual taste.

ARCHITEX is a stucco finish coat in many beautiful shades of color. It is accurately proportioned, factory mixed and carefully tested. It will not crack, craze, fade, discolor or mottle. It is waterproof.

ARCHITEX is readily worked in any desirable finish or texture.

Recommended Use—The recommended construction for a new home is:

First, KEYLOCK stucco base applied direct to studding or over sheathing.
Second, FLINT-ROCK magnesite stucco in two coats ¼ in. thick.
Third, ARCHITEX FINISH in texture desired.

ARCHITEX can be used successfully over other types of backing, brick, tile, block, etc. It is especially recommended as a color coat over old brick or stucco which has become dirty and weather beaten.

How to Apply Architex—

(1) Do not apply ARCHITEX when temperature is below 32° or above 95° F. Work on shady side of house as much as possible.
(2) Clean mortar box, tools, etc., carefully.
(3) Mix each 100 lbs. of ARCHITEX with 11 to 12 qts. of water. Allow mortar to approach initial set or to toughen. Time will vary with temperature.
(4) Wet down brown coat with mortar.
(5) Trowel on ARCHITEX not over 3/16 in. thick. As it sets, float with addition of a little water, using wooden float. This prevents cracks caused by premature drying while setting.
(6) If other than float is desired, such as stipple, sponge, etc., go over the surface after floating and use enough material to obtain the desired texture.
(7) Splatter dashing with willows can be done directly to brown coat. In this case, mix ARCHITEX to a creamy consistency varying according to roughness of effect desired.
(8) In hot weather ARCHITEX should be sprayed lightly for several days after application.

Flint-Rock All-Mineral Stucco

FLINT-ROCK stucco is an *all-mineral* oxychloride cement of remarkable strength and durability. It is flexible and resilient, water and fire resistant, and an excellent non-conductor of heat. It creates an absolutely tight joint against the frames, trim, coping, etc. A FLINT-ROCK home minimizes cost of construction, heating and maintenance.

Its formula being confined to only the very best materials of all-mineral nature, FLINT-ROCK is noted for its durability. Crushed granite, very hard, gritty and tenacious, is exclusively used as the filler in the first coat of FLINT-ROCK.

Its Use—FLINT-ROCK is always applied in two coats ¼ in. thick. When it is used as a base for ARCHITEX, the second coat is roughed or broomed to give a better bonding surface. It is then allowed to weather about 2 weeks before ARCHITEX is applied.

FLINT-ROCK granite dashes, all crushed at our Ingomar plant, offer a wide range of very beautiful dashed finishes. Our granite deposit and crushing facilities insure uniform color and size of our dashes at all times.

Applications of Flint-Rock—Complete instructions and specifications for preparation, mixing and application will be furnished immediately on request.

FLINT-ROCK is packed in heavy, waterproofed, 100-lb. bags. Sufficient magnesium chloride to mix is furnished with each order. Its application is simple and we will be glad to co-operate in drafting specific specifications or instructions for application.

Granite Boulders, Dashes and Aggregates

We operate a large glacier granite boulder deposit. Granites of every color imaginable are found here. These are crushed in a wide range for stucco dashes, and, being free from lime, very hard and lustrous in color, are especially suited for this purpose.

Aggregates are used extensively for facing blocks and cement products, for exposed surfacing of walks and drives and as integral aggregates in concrete construction when subjected to heavy usage.

Granite boulders, when laid in walls, give excellent strength of construction. Such homes are very beautiful and distinctive, and the demand for these boulders is steadily increasing.

Catalogue

Complete descriptive literature covering construction and application of our products awaits your request.

KRAGSTONE—The Stucco Beautiful

Made by

MAGNESITE PRODUCTS COMPANY

2756 South Albany Ave., Chicago

MANUFACTURERS OF KRAGSTONE STUCCO, VELVETILE FLOORING

FACTORIES AT CHICAGO, ILL.—FLUSHING, N. Y.—OMAHA, NEB.



Theodore Roosevelt Apartments, 171st and Grand Concourse, New York City.

Products

The products of this company are KRAGSTONE, a magnesite stucco for exterior finish; and VELVETILE, a magnesite composition flooring, both of which have been very widely used for residences, stores and offices, apartment buildings, and institutions such as hospitals, etc. Descriptive literature on use and application will be gladly furnished to building contractors on request.

Kragstone—The Stucco Beautiful

Kragstone exterior stucco is a compound of various minerals, such as pure white sand, silica, long fibre asbestos and pure calcined magnesite. The formulas upon which KRAGSTONE has been manufactured for the last 15 years have been developed in our own laboratory and are the culmination of years of experimentation. Every lot of material purchased is tested by our own chemist to maintain these high standards. No lime, gypsum or Portland Cement is used in KRAGSTONE.

Characteristics of Kragstone

The outstanding characteristics of Kragstone are its extraordinary strength, elasticity and adhesiveness. When applied ½ inch thick over wood lath, metal lath, brick, tile or other stucco base, it hardens into a very dense, durable as well as a very beautiful finish. When correctly applied it will not check or crack, bonding so closely to the material over which it is applied that it becomes an integral part of the stucco base itself.

Advantages Derived from Its Use

Among the advantages that result from the use of KRAGSTONE in building construction, are lower cost than any other type of construction except frame, and it compares very favorably even with this. The up-keep of a frame building, painting and repairs, more than offsets the small additional cost for stucco. A KRAGSTONE home is also much warmer in winter and cooler in summer, owing to the high insulating qualities of the material and is also a protection against fire, effecting a saving in insurance rates. KRAGSTONE being a plaster practically seals all cracks in a building and being water and frost-proof, provides the qualities most desired in modern construction. It can be applied at any time of the year in any climate, because of the fact that the plaster is not mixed with water, but with magnesium chloride, which is a non-freezing and fire-resisting chemical solution. This provides an all-year-round building season for the contractor and offers great possibilities for remodeling old buildings, as well as new construction. Practically any finish may be secured from the fancy trowel and float effect to the various dash combinations, using colored stone in solid or mixed colors. These dashes are thrown into the plastic stucco, which upon setting holds them securely offering a very pleasing effect.

A Better Stucco

KRAGSTONE has been specified in many large building projects, among which is the Theodore Roosevelt Apartments, New York City, the largest building in the world of stucco. KRAGSTONE was specified only after exacting competitive tests with all leading brands.

Covering Capacity

The covering capacity of KRAGSTONE Stucco will vary according to the material over which it is applied. Over wood lath spaced ¼ inch, one ton of KRAGSTONE applied in two coats, each one ¼ inch thick, (the proper thickness), will cover approximately 65 square yards. Over metal lath 50 to 60 square yards; over brick or hollow tile 75 square yards per ton. Stone dashes cover approximately 200 square yards per ton. All materials are sold by the ton, shipped in 100-pound bags and can be readily mixed on the job.

The Instruction Book

Our instruction book covering the mixing and application of KRAGSTONE will be gladly mailed to any building contractor or dealer upon request. It contains some interesting subjects concerning good stucco construction.

Velvetile Flooring

VELVETILE composition flooring, also a magnesite product, manufactured under the same high standards as KRAGSTONE, offers some very interesting possibilities as a floor for restaurants, schools, various public institutions, also bathrooms kitchen floors and residences. It is a very hard, dense material, resisting wear and abrasion, where no other flooring would stand up. This is manufactured in several colors, with which some very interesting combinations can be secured. Complete instructions for laying this material will be gladly furnished upon request.

For further details and literature, write to: **MAGNESITE PRODUCTS CO.,** 2756 South Albany Ave., Chicago, Ill.

Asbestone—The Everlasting Magnesia Stucco

Made by

FRANKLYN R. MULLER, Inc.
113 Madison St.
WAUKEGAN, ILLINOIS

FOR EXTERIOR AND INTERIOR USE

MULLER ASBESTONE GUARANTEED PRODUCTS
TRADE MARK

FIREPROOF WEATHERPROOF ENDURING ARTISTIC

Products

Asbestone Stucco, a highly standardized and uniform magnesia product for exterior and interior walls.

Asbestone Hygenic Fireproof Flooring.

Sana-bestos Floor Tiles.

Stone and Pebble Dashes in a great variety of attractive shades.

Illustrated descriptive literature on any, or all of our products will be mailed promptly on request.



This house was jacked up, moved more than a mile, and lowered on to its new foundations without a single crack appearing on its Asbestone Stucco surface. Convincing evidence of the fact that Asbestone is an ELASTIC stucco, that will not crack even when subjected to unusual strains.





An example of the possibilities of Asbestone Stucco in remodeling old houses. At comparatively small expense the dilapidated old frame house shown in upper of the two illustrations was converted into the modern and attractive residence shown in second illustration. The remodeling and stuccoing of old houses offers a wide and profitable field to the building contractor.

Asbestone Everlasting Stucco

This is a superior grade of Magnesia Stucco containing no lime, Portland cement or gypsum. It is characterized by great strength, durability, adhesiveness and elasticity. Will not expand or contract and is impervious to weather changes. Its unusual resiliency enables it to withstand settling strains without damage to a far greater degree than any other materials used in the manufacture of Stucco, or plaster.

Fireproof and Insulating Qualities

Asbestone being a compound of Magnesia and Asbestos is fireproof and possesses a high degree of insulating qualities—making the house stuccoed with Asbestone easy to heat in winter and cool in summer. It can be successfully used over frame, brick, hollow tile or any other kind of stucco base, and being non-freezing can be applied in winter as well as in summer.

Beautiful in Appearance

In its natural finish Asbestone produces a wall of a soft, creamy white. It can, however, be colored if desired, and many beautiful effects of texture and tone can be produced by the use of the trowel or sponge on its plastic surface, or by using one or more of our colored dashes, of stone, marble, granite, etc.

How Shipped

Asbestone is shipped in bags, in dry powder form, with the mixing compound in flakes in iron containers. The addition of water is all that is necessary to make it ready for use. This method of shipping the mixing compound in flake form instead of as a liquid results in considerable saving in freight charges.

Full Particulars on Request

You naturally wish to be familiar with the best types of materials used in building construction. Let us send you some interesting and helpful printed matter we have prepared giving the full story of Asbestone for exterior and interior use, with numerous illustrations in color. You will find much useful information in it.

For further details and literature, write to: **FRANKLYN R. MULLER, Inc.** 113 Madison St. WAUKEGAN, ILLINOIS

PYRAMID *(all mineral)* STUCCO

Made By

PYRAMID COMPANY

Established 1912

231 So. Wells St., Chicago, Ill.

Sales Offices and Warehouses
Chicago—St. Louis
Kansas City—Milwaukee

PYRAMID Magnesite STUCCO

A GUARANTEED PRODUCT

Factory
DOWNERS GROVE, ILL.
(Chicago Suburb)

All Mineral

Pyramid Stucco is an all mineral stucco containing no cork or sawdust. Packed and shipped in 100 pound bags.

Special Features

Pyramid Stucco is a finely graded magnesite stucco containing a large percentage of Magnesite, mixed with Silica and carefully selected, Asbestos fibre. It has remarkable tensile strength, and wonderful elasticity. It is very adhesive.

It can be applied over good grade of wood, metal or patent lath, brick, hollow tile or concrete. It fills every crevice, joins snugly and does not pull away around window frames or door casings.

Pyramid Stucco sets quickly and thoroughly—h a r d and dense—and can be used in zero weather without freezing.

It is maufactured by pioneer producers in a modern factory especially designed and equipped for scientific stucco manufacture.



Advantages

Pyramid Stucco is easier to apply and spreads easily over a large surface.

It withstands expansion and contraction and will not crack or check when applied to good construction. Strains that cause ordinary stucco to crack do not develop a hair line in Pyramid Stucco. 300% to 400% stronger. Makes an enduring, beautiful exterior finish that does not discolor in damp weather.

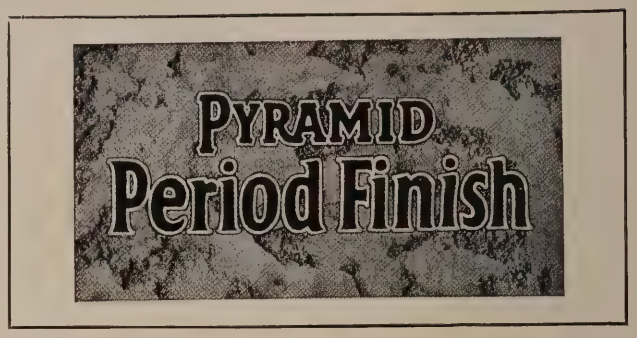
Always insures a successful job and costs no more than other Stucco.

Permanently-Colored Dashes

We sell, in 100 pound bags, the following all natural color dashes, which will retain their natural colors permanently: Pyramid Green; Carthage Gray; White Quartz; White Quartz (small size); Pink Quartz; Red Granite; Ohio Pebble; Pearl Shell; Green Marble; Buff Marble (small size); Mica Spar; Jet Black; Black and White Speckled; Brown Granite; Light Green; Rainbow Glass; Polished Shell. Many beautiful combinations can be worked out from the above colors. One ton of Dash will cover 200 to 225 yards depending upon the size of Dash used.

Unusual and Lasting Beauty

The remarkable beauty of Pyramid Stucco is due to its clean cut, permanently white appearance. This white background affords an attractive surface for the imbedding of crushed marble or other surfacing or dashes.



Pyramid Period Finish

Pyramid Period Finish is used when a dashed surfacing is **not** desired. Pyramid Period Finish can be obtained in a variety of colors, and may be stippled, floated or troweled to represent any of the different periods of architecture, without any discoloration or unevenness of color.

Pyramid Period Finish is applied in three coats, each one quarter (¼) inch in thickness. The two base coats, are of magnesite composition, and the third coat is of portland composition. A mechanical bond is obtained between the second and third coat by brooming or roughing the second coat, and allowing it to set for two days before applying the third coat.

Easy to Apply

Pyramid Stucco is easy to apply as it is very plastic and buttery. It spreads easily over a wide surface and bonds perfectly. A mechanic and laborer under ordinary conditions, can apply from 50 to 60 yards of scratch, finish and dash per day.

Insulates, Weather & Fire Proofs

Pyramid Stucco is a perfect insulator. Keeps the house warmer in winter and cooler in summer.

It waterproofs the wall to which it is applied. Through a special process known as "supergrading" Pyramid Stucco is made permanently impervious to any detrimental effects from rain, snow or other moisture. No harmful or temporarily effective chemicals are used to obtain these waterproofing qualities that have been so heartily endorsed by stucco specialists throughout the country.

Literature and Prices

We suggest that Dealers send for our new quotations. With quotations we will send complete information regarding Special Plan for Promoting the Remodeling of Old Homes, also samples for your display windows.

For further details and literature, write to: **PYRAMID COMPANY, 231 So. Wells St., Chicago, Ill.**

Oriental Stucco

Manufactured by the

UNITED STATES GYPSUM COMPANY

205 West Monroe St., Chicago, Illinois

BRANCH OFFICES

New York, N. Y., 17 State St.
Buffalo, N. Y., Ellicott Square Bldg.
Boston, Mass., 100 Bolyston St.
Washington, D. C., 605 Lenox Bldg.
Baltimore, Md., 1008 American Bldg.
Philadelphia, Pa., 415 Otis Bldg.
Pittsburgh, Pa., 917 Bessemer Bldg.
Cleveland, Ohio, 625 Hanna Bldg.
Cincinnati, Ohio, 704 Atlas Bank Bldg.
Detroit, Mich., 1462 Penobscot Bldg.
Milwaukee, Wis., Grove and Oregon Sts.
Minneapolis, Minn., 634 McKnight Bldg.
St. Louis, Mo., 1339 Syndicate Trust Bldg.
Kansas City, Mo., 420 Lathrop Bldg.
Omaha, Neb., 705 Brandeis Theatre Bldg.
Denver, Colo., 603 Denham Bldg.
Los Angeles, Cal., 1105 Edwards & Wildey Bldg.

For other products see pages as follows: Plasters and Finishes, 97; Insulation, 117; Wallboard, 125; Sheathing, 127; Textone Wall Decoration, 456.

Oriental Stucco:

New Beauty and Permanence in Stucco: Oriental Stucco successfully meets the modern demand for stucco that will harmonize in texture and color with the architectural style of the building upon which it is used. It is a scientifically compounded stucco furnished as Base and Finish coats, each ready mixed, waterproof, non-staining, plastic, easy to apply, and durable.

Factory Mixed: Oriental Stucco Base Coat is mixed by machine at the mill with the correct proportion of sharp, graded sand and ingredients to make it waterproof and plastic. As this coat (as well as the Finish Coat) is ready for use with the addition of water, possibility of improper mixing or the use of poor sand is eliminated and uniform results are assured on every job.

Color and Texture: Oriental Stucco Finish Coat is made in white and nine standard colors and every job is, therefore, of a uniform shade regardless of the number of mixes required.

Because of the remarkable plasticity of the Finish Coat, the ordinary mechanic with common tools can accurately reproduce English, Spanish, Colonial, and other period textures to correctly interpret and harmonize with the architectural style of the building.

Oriental Stucco Handbook: To assist home owners and builders in securing accurate reproductions of period textures, the United States Gypsum Company has prepared a Handbook which describes the characteristic features of several popular styles and illustrates ten stucco textures in colors, by embossed panels. A copy of the Oriental Stucco Handbook will be sent free upon request,.



Typical English Architecture



Interpretation of English Texture in Oriental Stucco

Bases Upon Which Applied: Oriental Stucco may be applied over metal lath, wire lath, tile, brick, concrete, and over Gyp-Lap wall construction. It is also especially adaptable for overcoating old cement stucco walls, masonry surfaces, and the walls of frame buildings.

Application of Base Coat: The Base Coat is applied in the same fashion as Portland Cement stucco, in two coats. The first coat should be scratched and allowed to dry thoroughly and should then be followed with the brown coat, properly floated to straighten the work. The brown coat must be allowed to dry completely to permit shrinkage to take place and then wet down before applying the Oriental Stucco Finish Coat.

Finish Coat is Easily Textured: Oriental Stucco Finish Coat can be surfaced with ordinary tools to accurately reproduce any period texture. In addition, it is adaptable to the entire range of stucco treatment known to architects and builders. It is equally easy to achieve in Oriental Stucco Finish, the smooth trowel, stipple, sand sprayed, rough cast, or spatterdash finishes, according to individual taste or requirements.

For further details and literature, write to: **UNITED STATES GYPSUM CO., CHICAGO, ILL.**

Better Plastering for the Home

NATIONAL COUNCIL FOR BETTER PLASTERING

Madison Square Building

Chicago, Ill.

Nothing equals the beauty of good plastering. No other wall finish is so perfectly adapted to useful and decorative effects.

Remember that plastering represents 80% of the visible interior of the home and practically all of the finish in it. The initial cost of Better Plastering is so modest in comparison with many other features that go to make the home, that you can't afford to overlook consideration of a steel base—for no equal amount can so much protection from fire, freedom from repair, and permanent satisfaction be bought.



Don't blame the plasterer. He can't prevent the staining caused by moisture, and streaking due to dust absorbed by ordinary plastering.



The fire had its own way. There was nothing to stop it. A steel plastering base holds the plastering in place and protects lumber for one hour. Makes buildings fire-safe.

Safety from Fire.

An unburnable barrier is formed by plastering on its base of steel. So effectively does this protect the wood studs and joists from fire that the Underwriters' Laboratories have officially given it a one-hour rating. This, to all intents and purposes, means complete protection from fire.

Over 7,500 lives and $88,000,000 are our annual loss from fire in dwellings. Most of these tragedies are said to be due to interior defects. When walls and ceilings are Better Plastering on METAL Lath, the fire hazard has been reduced to the minimum.

Every home should be a safe place to live in. There are parts of the home where cost is secondary to safety, yet the added cost for plastering on a steel base is very moderate.

Minimum Cost for Upkeep.

Repair and replacement of plastering and the cost involved are held to the minimum when steel is used for the plastering base. Dust streaks are absent, as are stains.

Steel gives plastering the strength to resist vibration, moisture and temperature changes without cracking. It will not shrink, swell, warp or burn.

Sound Absorbent and Sanitary

Because it is thicker and denser than ordinary plaster, Better Plastering is more soundproof. Quiet, of course, is desirable in the home. Plastering on steel prevents the passage of vermin and rodents. There are no cracks for cockroaches to come through. A plastered surface permits effective disinfection in the event of sickness in the home.

Slight Difference in Cost

Compare the slight difference in cost between Better Plastering on METAL lath and ordinary plastering, with any other contract. Actually, this difference is probably the smallest that will have to be considered. Yet the decision as to the plastering base is the most important one made by the homeowner.

In a few years the slight added investment for Better Plastering on its steel base will have been repaid in freedom from upkeep cost.

In apartment buildings the use of Better Plastering with METAL lath to reinforce and preserve, benefits the owner as well as those who make their homes there.

Plastering Contractors' Estimates

Plastering Contractors will be glad to submit alternate bids as follows:

For furnishing three coat plaster reinforced by three pound metal lath:

(1) Throughout the plastered parts of the building, add $.....

(2) On all ceilings, add $.....

(3) On the ceilings and in the corners of the entry hall, living room, and dining room, on soffit of main stairway, bath room wainscot, and for fire protection over heating plant and underside of main stairway add $.....

Send for Booklet

An interesting booklet on Better Plastering sent free on request.

For further details and literature, write to: **NATIONAL COUNCIL FOR BETTER PLASTERING** Madison Square Building, Chicago

Metal Lath—For Better Plastering

ASSOCIATED METAL LATH MANUFACTURERS

123 W. Madison Street

Chicago, Ill.

CONTRIBUTORS

Berger Manufacturing Company, Canton, Ohio.
Bostwick Steel Lath Company, Niles, Ohio.
Consolidated Expanded Metal Companies, Braddock, Penna.
General Fireproofing Building Products, Youngstown, Ohio.
Milwaukee Corrugating Company, Milwaukee, Wisc.
Northwestern Expanded Metal Company, Chicago, Illinois.
Penn Metal Company, Boston, Mass.
Truscon Steel Company, Youngstown, Ohio.
Youngstown Pressed Steel Company, Warren, Ohio.

Product:

Metal Lath and Accessories.

Uses:

As a plastering reinforcement and base for stucco.

Kinds of Metal Lath:

Individual types and forms of metal lath, corner beads, metal moulding, base board, base screeds, picture mouldings, and door and window trim will be found in the catalogs of the various companies listed above.

Metal lath is furnished painted or cut from galvanized sheets. Painted lath is suitable for all practical purposes; gypsum plaster should not be used in places subject to continuous moisture such as shower stalls, partitions resting on the ground—portland cement should be used.

Function of Metal Lath:

Metal lath acts as a base and reinforcement for interior plaster and braces the lumber frame of buildings, making them rigid. It is also widely used as a reinforcement for exterior stucco. It does not expand, contract, or warp nor does it permit dust streaks to appear on the wall, as with ordinary lath.

Uses of Metal Lath:

Ordinary lumber construction — wood stud partitions and wood joisted floors, can be made crackproof and firesafe to a superior degree by using metal lath as the plastering reinforcement. It keeps the plaster in position long after it has been disintegrated by fire and would otherwise have fallen off and become useless as a protection. As a reinforcement for exterior stucco, it has the endorsement of stucco experts.

The use of corner beads provides needed protection for projecting corners of plastered walls, preventing them from chipping and cracking. Inside corners, where wood lath, celotex or plasterboard are used, should also be reinforced by metal lath cornerite to prevent corner cracks at joining of partitions, walls, and ceilings.

The use of steel window casings, door casings, and of steel for other interior trim eliminates much inflammable material, makes for more permanent construction and is much used in office and other public buildings of the better type.

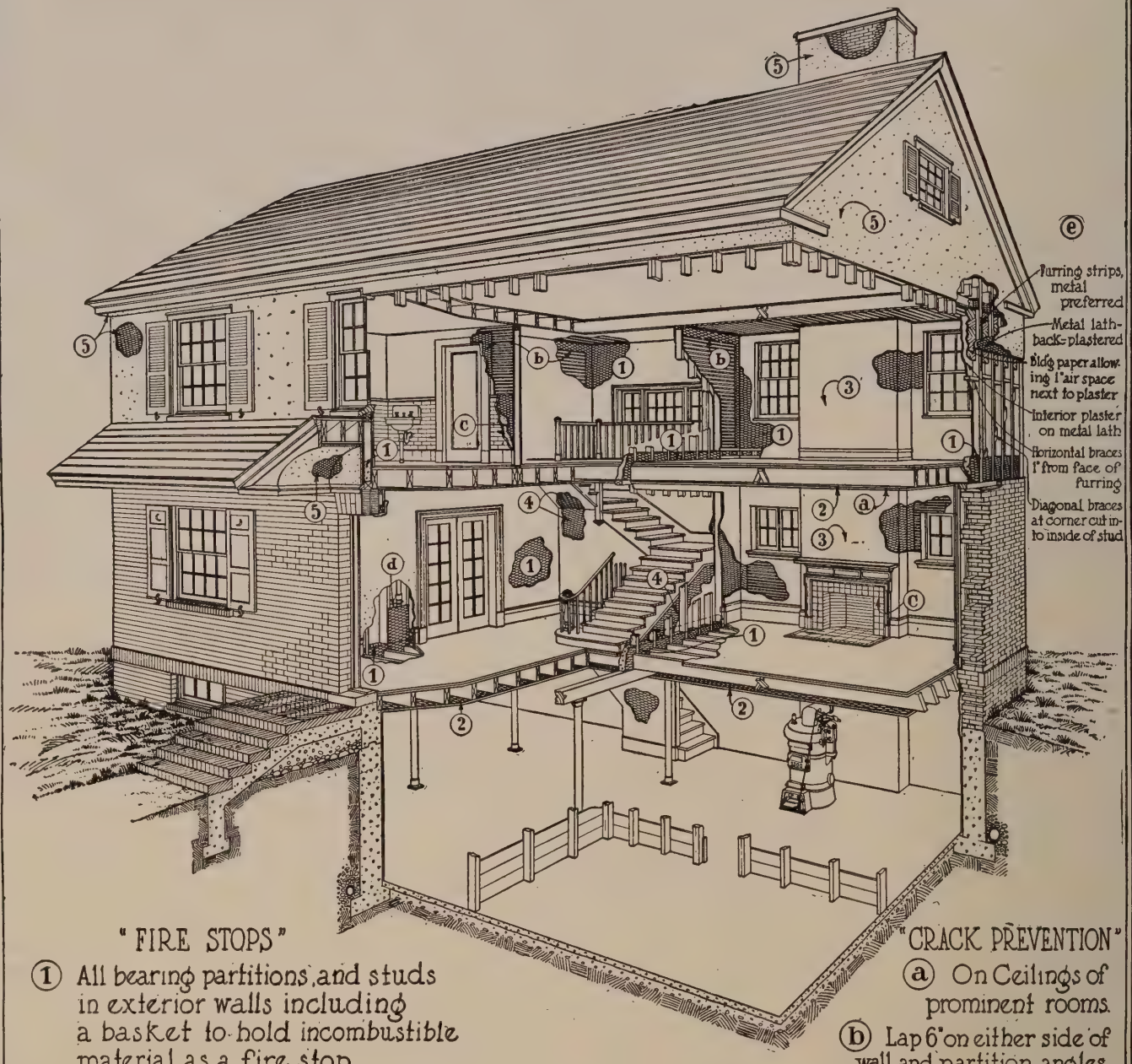
Small Cost of Using Metal Lath:

Plastering on metal lath has decreased, relatively, in cost. It is frequently only 35 to 50 cents per yard more than plastering on ordinary lath. For this reason discerning builders are recommending to their customers that they adopt it in their homes *in a few of the places most vulnerable to fire* or *in prominent rooms only,* when strict economy is essential. For $35.00, 100 yards of plaster on metal lath can be used in such parts of a home, adding a large measure of fire protection, preventing plaster cracks in prominent rooms, and adding to the resale value of the home.

Literature Available:

The Associated Metal Lath Manufacturers have prepared complete specifications and construction details for contractors, builders and those intending to build, which will be sent free on request to any address. Also details of correct stucco design, method of erection, strength tests, heat conduction tests, etc., which contain information every builder should know.

"METAL LATH STOPS FIRE AND PREVENTS CRACKS"



"FIRE STOPS"

① All bearing partitions and studs in exterior walls including a basket to hold incombustible material as a fire stop

② Ceilings under inhabited floors, especially over heating plants and coal bins.

③ At chimney breasts, around flues and back of kitchen ranges.

④ Stair-wells and under stairs.

⑤ As a base and reinforcement for exterior stucco.

"CRACK PREVENTION"

ⓐ On Ceilings of prominent rooms.

ⓑ Lap 6" on either side of wall and partition angles, and around door bucks.

ⓒ Back of wainscots and tile mantels.

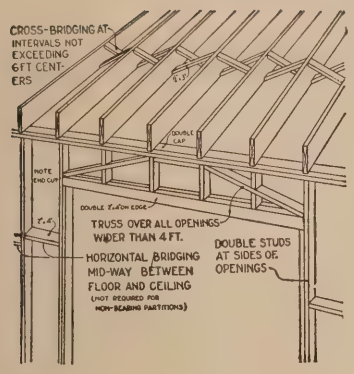
ⓓ Across plumbing-pipes and heat-ducts.

ⓔ Showing proper construction of exterior stud walls for successful stucco.

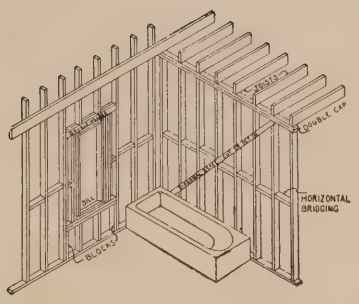
MOST ADVANTAGEOUS POSITIONS FOR METAL LATH TO STOP FIRE AND PREVENT CRACKS

For further details and literature, write to: **ASSOCIATED METAL LATH MANUFACTURERS** 123 W. Madison St. Chicago.
OR TO ANY COMPANY LISTED ON PAGE 89

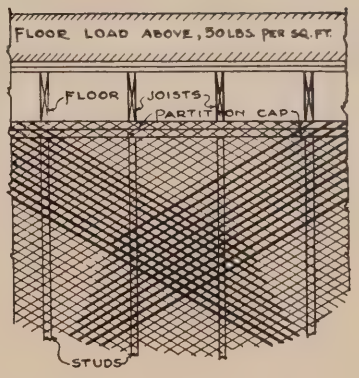
METAL LATH STOPS FIRE, PREVENTS CRACKS



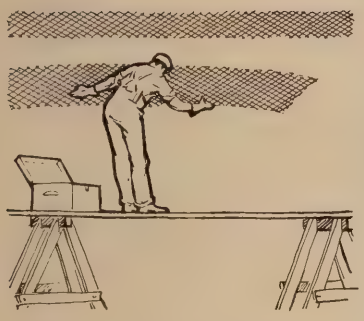
Proper bracing of frame work of the building is the first essential of good plastering.



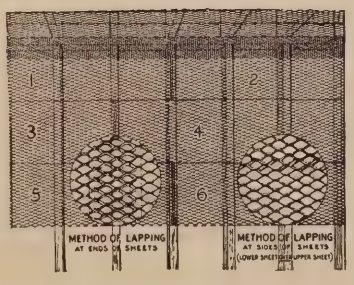
A little extra bracing around windows and in the bathroom will prevent sagging.



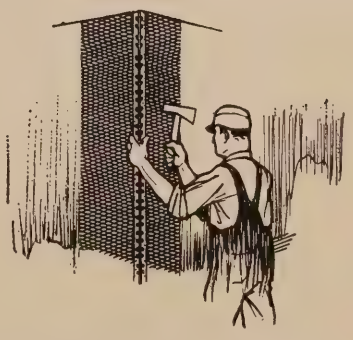
The strands of steel lath reinforce the entire building to make it like a bridge, preventing cracks due to unusual floor loads, unequal settlement, and racking caused by wind.



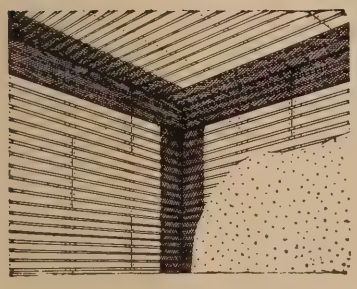
The large sheets of METAL lath go up quickly.



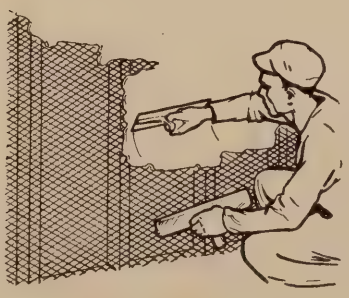
This close-up shows order of application of sheets and correct method of lapping ends of adjoining sheets.



Corner beads reinforce and protect projecting corners.



A 12-inch strip of METAL lath (Cornerite) bent into the inside corners of walls and ceilings reinforces the plastering even when applied over an ordinary base.



Plaster is applied over the steel mesh of METAL lath in the same manner as over ordinary lath, and the entire wall and ceiling are reinforced.



The plaster sets like a vise on a mesh of steel which does not sag, warp, swell, shrink or burn.

For further details and literature, write to: **ASSOCIATED METAL LATH MANUFACTURERS** 123 W. Madison St., Chicago
OR TO ANY COMPANY LISTED ON PAGE 89

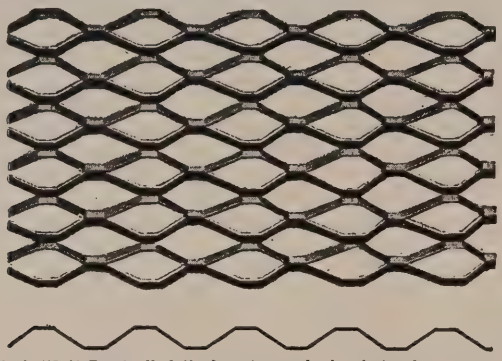
Sykes Metal Lath and Building Specialties

Manufactured by

THE SYKES METAL LATH CO.

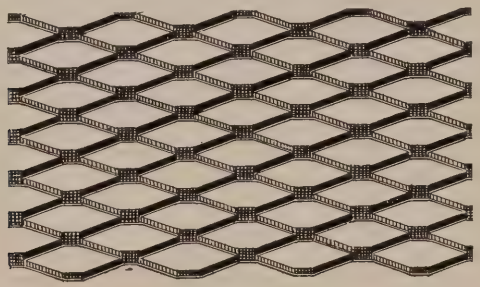
NILES, OHIO

Sykes Expanded Cup Metal Lath



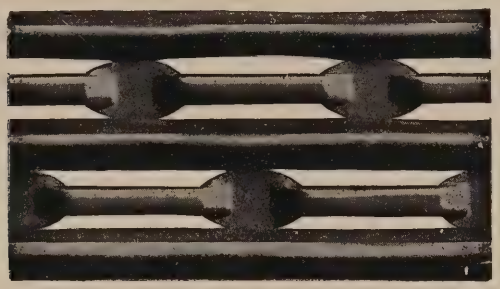
The original "Self-Furring" lath for stucco, back plastered or over sheathing. Saves time and assures perfect work.

Sykes Economy Diamond Lath



Furnished in the standard weights, every sheet full size with no ragged edges.

Sykes Trough Sheet Lath



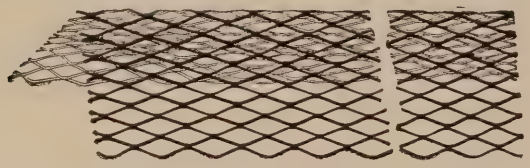
A plaster and labor saver, easier to erect than wood lath and takes less plaster.

Corner Bead



Made of best grade, tight coat galvanized steel. The best bead obtainable.

Kornerite

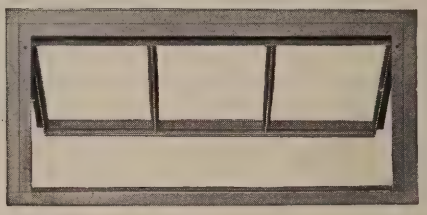


A metal lath angle to prevent plaster cracking when applied over wood lath.

Products

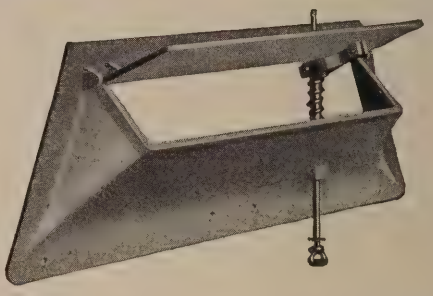
Expanded and Sheet Metal Lath; Corner and Base Bead; Cold Rolled Channel; Kornerite; Wall Ties and Plugs; Basement Windows; Fireplace Dampers; Coal Chute Doors; Ashpit Doors and Cleanout Doors; Ash Dumps; etc.

Basement Windows



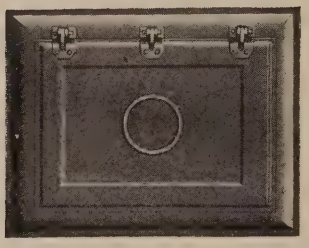
Made entirely of copper alloy steel in three standard sizes. Absolutely weatherproof, rigid and durable.

Dome Dampers



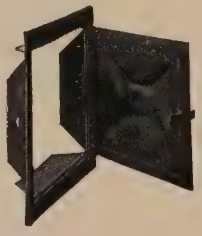
Furnished in two styles—Poker Control and Rod Control. Accurately machined and assembled before shipping. Positive control and draft for open fire-places.

Coal Chute Doors



Made in two styles with Solid Steel Panel or Wired Glass Panel. All exposed metal is galvanized steel. No complicated parts to wear or break.

Ashpit and Flue Cleanout Doors



Complete door and frame assembled and ready to set. Made entirely of galvanized steel.

Literature

Literature and further information sent on request. Our handbook contains complete specifications and erection data for lathing and furring.

For further details and literature, write to: **THE SYKES METAL LATH CO., Niles, Ohio**

Wheeling Metal Lath

Manufactured by

WHEELING CORRUGATING COMPANY

Wheeling, W. Va.

BRANCHES:
New York
Philadelphia
Richmond
Chattanooga

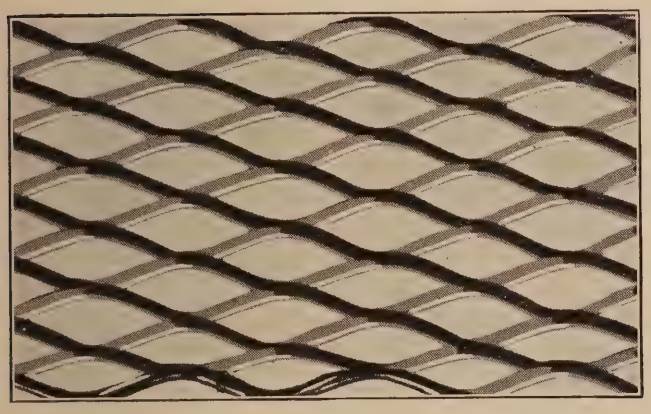
BRANCHES:
Chicago
St. Louis
Kansas City
Minneapolis

Products:

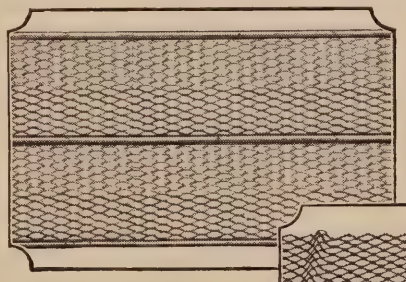
There is a complete line of Wheeling building materials, manufactured to strict standards which insure better built homes. From cellar to roof you can standardize on Wheeling products that reduce labor costs, save material and insure lasting service. There is no substitute for Sheet Steel.

Metal Lath
Corner Bead
Metal Shingles
Metal Ceilings
Metal Roofings
Roofing Ternes
Wall Ties
Wire and Cut Nails
Eavestrough
Mortar and
Brick Hods
Conductor Pipe

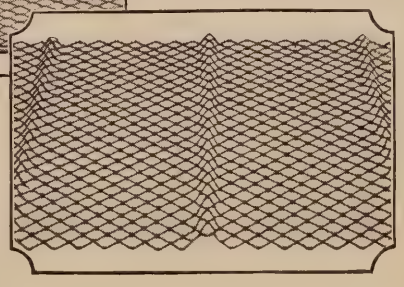
For information concerning Wheeling Ha nd-Dipped Conductor Pipe, see page 163.



Wheeling Manufacture Insures Straight Edges and Square Corners, Which Eliminate Waste



Wheeling ⅜ in. Rib Lath at left shows solid ribs that give maximum rigidity.



Wheeling Rid-Gid Metal Lath at right with formed ridges for stucco work.

Wheeling Metal Lath:

A standard, expanded metal diamond mesh lath for all classes of work. All sheets have square corners and straight edges and are 28 inches wide.

Easier and More Economical to Use:

Builders prefer Wheeling Metal Lath because of the straight edges and square corners, which permit easy, quick handling. Moreover there is less waste in lapping. All sheets of standard lath being 28 inches wide permit saving of lath by use of fewer sheets.

Quality and Construction:

The base metal of all standard Lath consists of open hearth steel sheets of uniform high quality. By a special process these sheets are turned into lath without reheating. All of the original stiffness in each sheet remains in the finished lath, affording a perfectly flat support for plaster, cement or stucco.

Wheeling Metal Lath can be furnished (1) made from open hearth steel sheets, painted black, (2) cut from galvanized (zinc-coated) sheets, or (3) Ohio Metal Copper-Bearing Steel, painted red.

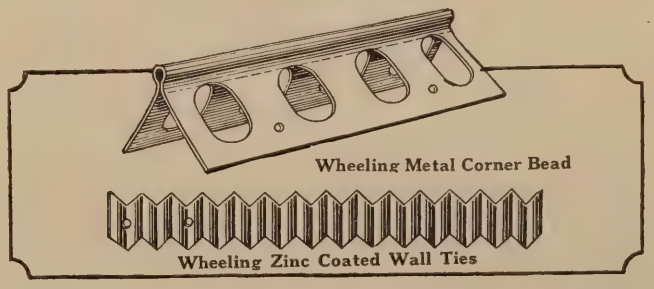
Wheeling Rid-Gid Metal Lath:

A self-furring lath for stucco work. This lath in mesh and size is the same as Wheeling Standard Diamond Lath, except that it has formed ridges added which eliminate the need for furring strips, stiffen the sheet and add fully 30% greater strength, without extra weight. On interior plastering work the extra rigidity and stiffness permit much wider spacing of studding with resulting economy in time and material.

Wheeling ⅜ in. Rib Lath:

Where exceptional strength is needed this diamond mesh lath with its solid ribs, spaced 4.8 inches apart, provides maximum rigidity. On suspended ceilings and ceilings beneath floors, Rib Lath, due to its rigidity, permits wider spacing of cross channels, with saving of material and labor. On partitions built with wood or metal studs, Rib Lath saves studs and erection cost. Absence of spring in Lath between studs permits uniform thickness of plaster at considerable economy.

Ask your building supply dealer for Wheeling products.



Wheeling Metal Corner Bead

Wheeling Zinc Coated Wall Ties

For further details and literature, write to: **WHEELING CORRUGATING COMPANY, WHEELING, W. VA.**

CLINTON Wire Lath

Manufactured by

WICKWIRE SPENCER STEEL COMPANY

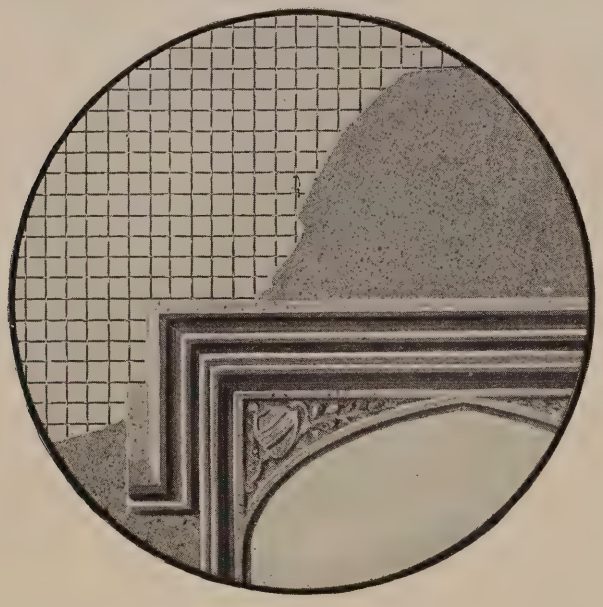
New York Chicago Worcester Buffalo Cleveland Detroit
San Francisco Los Angeles Seattle

For Wire Fences and Screen Wire Cloth, see page 295.

Clinton Wire Lath

Clinton Wire Lath has been the recognized standard of quality for over half a century and is the most efficient and trustworthy lathing material in use at the present time.

The Clinton Wire Cloth Company (Wickwire Spencer Steel Company, successor) was the first concern to engage in the manufacture of fireproof lath.



It was used for fireproofing purposes as early as 1856, and many buildings are now standing which were fireproofed with this material at that time.

Wire Versus Sheet Metal

A drawn steel wire when compared with a sheet of metal is, in the matter of strength and general quality of material, a superior product. The wire, which is made by being drawn through a die, is, during its manufacture, subjected to a high tensile stress. This drawing and working of the material renders the wire a fibrous material of uniform quality and for this reason it is stronger and more reliable than sheet metal, which is necessarily of an inferior grade and which suffers more or less injury through the process of cold cutting and expansion.

Perfect Key

The primary function of any lathing material is to serve as a foundation to grip and hold mortar. It is the key or the clinch of the backplaster which actually determines the efficiency of the plastered surface.

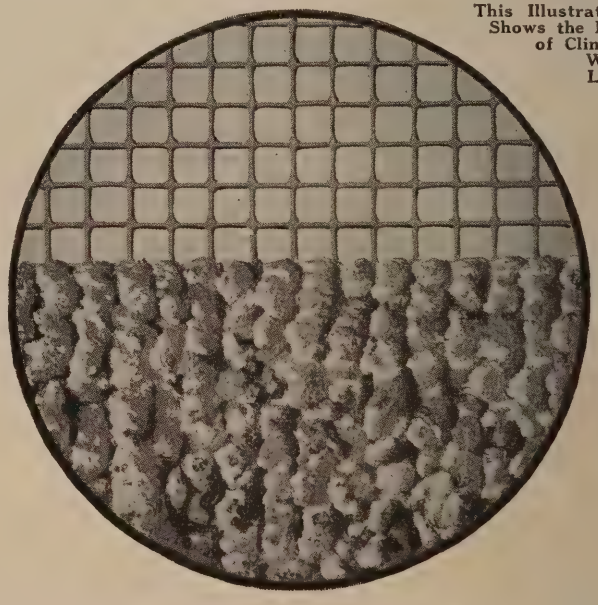
To obtain the best results it is not sufficient to have isolated portions of mortar here and there pushed through and turned on the reverse side of the lath, as with a great many types of metal lath. In order to insure substantial and permanent construction, it is absolutely essential that the lath be actually embedded in the body of the plaster. Without a thorough covering of backplaster, air and moisture will in time attack the metal and slow but sure disintegration will result.

Because of the ease with which mortar will pass over and around the small circular strands of a wire mesh with no flat or inclined surfaces to deflect or obstruct its passages, Clinton lath enables plaster to form a more perfect key than can be obtained with any other type of lath.

Quantity of Plaster

This perfect key does not by any means indicate that wire lath will waste plaster. All metal which enters into the structural elements of a building must be protected against rust and corrosion. In the case of a metal lath it is this backplaster, this key, this rear side covering, which must be relied upon to offer the necessary protection to the lath. The claim made by some manufacturers that their lath saves mortar is in itself an admission of the fact that a thorough and satisfactory key is not obtained. Naturally, any type of lath which permits plaster to pass through and be turned here and there at isolated spots on the reverse side of the lath will use less plaster than one which permits the plaster to cover the metal thoroughly.

Write for full information about the different grades of Clinton Wire Lath, with specifications and recommendations as to kind best adapted to various jobs.



This Illustration Shows the Key of Clinton Wire Lath

Ebsary Gypsum Company, Inc.

Scottsville, N. Y.

General Sales Offices: 103 Park Avenue, New York, N. Y.

SALES OFFICES

Boston, Mass. Newark, N. J. Philadelphia, Pa. Washington, D. C.

Products

EBSARY GYPSUM CEMENT PLASTER.
EBSARY GYPSUM WOOD FIBRED PLASTER.
EBSARY GYPSUM SANDED PLASTER.
EBSARY GYPSUM CONCRETE PLASTER.
EBSARY GYPSUM PARTITION BLOCK.
EBSARY GYPSUM ROOF BLOCK.

Ebsary Gypsum Plaster

Gypsum Plaster is shipped in 100-lb. jute bags and 80-lb. paper bags. Careful attention is given to the manufacture of this plaster so that it will work perfectly under varying climatic conditions, and each individual market is supplied with a plaster that will work best under the particular conditions prevailing.

CEMENT PLASTER—Is prepared for use in the larger cities and where the sand conditions are good. This is the material that is distinguished by the well-known Ebsary Blue Tag and is well and favorably known throughout the East.

WOOD FIBRED PLASTER—Is intended for those sections of the country where the sand obtainable is not of as good quality as would be required for use with Cement Plaster, and also where a particularly smooth and easy working plaster is desired.

SANDED PLASTER—Is a prepared plaster requiring only the addition of water when it is used and it is used where sand is not obtainable locally, and also it is a fine material to use where skilled labor can not be secured.

CONCRETE PLASTER—Is especially prepared to be used directly upon smooth concrete walls and ceilings and requires only the addition of water when being mixed.

When you use Ebsary Cement Plaster you will get a dependable uniform plaster, made from the purest of gypsum rock—every mix is laboratory tested. When applied, Ebsary Plaster sets or hardens in from three to six hours. Gypsum will not expand or contract so there is no shrinkage as in lime and the cost is no greater than three coat lime mortar.

Ebsary Gypsum Blocks

Lowest in cost of all fireproof partitions. Saves from 10 per cent to 20 per cent in plaster. Best for sound proofing purposes.



Part of a group of twenty-nine houses constructed by McBride Ogden Construction Corporation.
Ebsary Cement Plaster Used.

For further details and literature, write to: **EBSARY GYPSUM COMPANY, INC.,** 103 Park Avenue, New York, N. Y.

Rock Plaster Corporation Products

Riverside
Plaster of Paris

Blue Seal Rockwall

Rock Board
A Plaster Board

Made by

ROCK PLASTER CORPORATION

40 Rector St., New York City
Quarries at Walton, Nova Scotia

Rock Wall
Ready Mixed Plaster
Rock Wall
Walton Wood Fiber
Rock Block
A Partition Block

Products

The principal products of this corporation are listed above. They consist of different varieties of plastering materials made from the finest quality of gypsum rock, of which our quarries at Walton, Nova Scotia, contain practically an unlimited quantity. From these quarries the raw material is transported by sea to our mill in New York City, conveniently located on the water front, from which the manufactured products are shipped by boat and rail. Our shipping facilities, consisting of railroad sidings connecting with the Harlem River Terminal of the N. Y. & N. H. & H. R. Rd., and of adequate steam lighter equipment for shipment at other railroad terminals in New York Harbor. Our 35 years of experience backed by a well co-ordinated manufacturing and selling organization—large enough to be dependable, yet small enough for friendly dealing—is your guarantee of an uninterrupted supply of the best plastering materials and REAL SERVICE.

Riverside Plaster of Paris

This is the ideal material for finishing walls and ceilings and for all kinds of ornamental work. If you want an easy-working, reliable plaster that is truly WHITE, use Riverside.

This finishing plaster is made from the finest grade of imported Gypsum Rock, and for the past thirty-five years has been extensively used throughout this country and abroad. Many of the more prominent buildings in New York City have been plastered with it.

It is calcined by the slow process, and great care is taken throughout its manufacture, insuring absolute uniformity of set, high tensile strength, and purity.

"RIVERSIDE" Finishing Plaster is white, cool working, finely ground, and light in weight. It is used for the smooth finish on walls and ceilings, for setting marble, and all purposes that a Mason's Plaster is adapted to.

"RIVERSIDE" Casting Plaster is made from selected rock, insuring the whitest color and coolest working plaster. It will not burn the gelatine moulds, forms sharp, true edges, and will be found to be unexcelled for all shop purposes.

Shipped in 250-lb. barrels and in 100-lb. bags.

Rock Wall Ready Mixed Plaster

This is a hard Wall Plaster, supplied to the building in a dry state ready for use by simply adding water.

Rock Wall Ready Mixed Plaster is a combination of Riverside Plaster of Paris, Cow Bay Sand, Fiber and other ingredients, all carefully weighed and thoroughly mixed by machinery in the proper proportions—thus insuring an absolutely uniform product.

It will give to Wood Lath substantial fire protection, and on Rock Wall Plaster Board, wire or metal lath, creates a wall of great fire resistance.

Rock Wall Ready Mixed Plaster is shipped in 100-lb. bags.

Three Varieties of Rock Wall Ready Mixed Plaster

The above material should be ordered according to the purpose for which it is required, namely.

Lath Mortar, or Scratch, Rock Wall—for use on Rock Plaster Board or wood lath;
Special or Wire Lath Scratch, Rock Wall—for use on metal or wire lath;
Browning Rock Wall—for use on terra cotta or brick walls, or as a second coat on scratch.

All three kinds of Rock Wall come ready mixed and require only the addition of water on the job.

Covering Capacity of Rock Wall Ready Mixed Plaster

On Rock Plaster Board with grounds set one-half inch in thickness one ton of Lath Mortar, or Scratch, Rock Wall will cover 80 to 90 square yards—on wood lath, with grounds set ¾-inch thick, from 60 to 70 yards. On metal or wire lath one ton of special, or Wire Lath Scratch, Rock Wall will cover 40 to 45 square yards, with grounds set one-half inch in thickness. On brick or terra cotta one ton of Browning Rock Wall will cover 35 to 40 square yards with grounds set one-half inch in thickness.

Blue Seal Rock Wall (Neat)

This is a neat cement plaster, extra fibered and a great sand carrier. As a practical working plastering material it has no equal in sand carrying capacity, easy working and spreading under the trowel, freedom from cracking and buckling lath, in covering capacity and in permanence and durability. It comes packed in 80-lb. paper bags and in 100-lb. jute bags.

Directions for Using Blue Seal

Use only clean, sharp sand free from loam. The best results are obtained by mixing sand and Blue Seal in the following proportions:

For Scratch, or Lath, Mortar: One part *by weight* of Blue Seal to 2½ parts *by weight* of clean, sharp sand.

For Browning on Brick or Terra Cotta Walls: One part *by weight* of Blue Seal to 3½ parts *by weight* of clean, sharp sand.

Write for Full Information

We have printed matter containing much information of interest to the builder that we will be glad to mail on request. Also literature describing our other products—Rock Board (a plaster board); Rock Block (a partition block); Rock Wall Walton Concrete and Rock Wall Walton Wood Fiber—both plaster products.

Drop us a line and get acquainted with the merits of these high-grade gypsum products.

For further details and literature, write to: **ROCK PLASTER CORPORATION** 40 Rector Street New York City

U S G Plasters and Finishes

Manufactured by the

UNITED STATES GYPSUM COMPANY

205 West Monroe St., Chicago, Illinois

BRANCH OFFICES

New York, N. Y., 17 State St.
Buffalo, N. Y., Ellicott Square Bldg.
Boston, Mass., 100 Bolyston St.
Washington, D. C., 605 Lenox Bldg.
Baltimore, Md., 1008 American Bldg.
Philadelphia, Pa., 415 Otis Bldg.
Pittsburgh, Pa., 917 Bessemer Bldg.
Cleveland, Ohio, 625 Hanna Bldg.
Cincinnati, Ohio, 704 Atlas Bank Bldg.
Detroit, Mich., 1462 Penobscot Bldg.
Milwaukee, Wis., Grove and Oregon Sts.
Minneapolis, Minn., 634 McKnight Bldg.
St. Louis, Mo., 1339 Syndicate Trust Bldg.
Kansas City, Mo., 420 Lathrop Bldg.
Omaha, Neb., 705 Brandeis Theatre Bldg.
Denver, Colo., 603 Denham Bldg.
Los Angeles, Cal., 1105 Edwards & Wildey Bldg.

For Other Products see pages as follows: Stucco, 87; Insulation, 117; Wallboard, 125; Sheathing, 127; Textone Wall Decoration, 456.

U S G Red Top Gypsum Wall Plaster:



Red Top Plaster: U S G Wall Plaster is manufactured from the finest obtainable gypsum deposits at twenty-two producing mills located at strategic points throughout the country. These plasters are packed in distinctive Red Top jute and paper bags which serve as a reliable and easily recognized guide to contractors and building owners who demand the hardest, densest walls that can be produced. Because of the quality of the rock used and the highly developed and specialized process of manufacture, Red Top plasters are characterized by absolute uniformity and exceptional plasticity. These qualities assure economy in application and upkeep.

U S G Finishes: A complete line of prepared finishes, gauging plasters, moulding and casting plasters, and hydrated lime is manufactured by the United States Gypsum Company. Each of these materials is produced under the same rigid standards that govern the manufacture of Red Top plaster and each is as dependable in quality and results.

These materials are briefly described below. Specifications and complete information on all United States Gypsum Company products will be sent upon request.

Red Top Cement Plaster: This plaster is supplied fibred or unfibred to meet the requirements of the base over which it is applied. It is made for use where good sand is available and where the purchaser prefers to sand his own mortar.

Red Top Wood Fibre Plaster: Wood Fibre plaster contains finely shredded wood fibres and requires only the addition of water to make it ready for use. No sand is necessary with this material. It makes a dense, durable wall with superior fire resisting, insulating and sound retarding qualities.

Red Top Sanded Plaster:

This material consists of Red Top cement plaster machine mixed in correct proportions with clean, sharp sand. It is ready for use with the addition of water and may be mixed inside the building. Saves time and labor.

Bondcrete for Concrete: This is a specially prepared plaster for use on concrete surfaces. It adheres strongly to the concrete because of its unusual cementitious qualities and because it maintains a practically unchanging volume during the process of setting and hardening. It is ready for use with the addition of water.

Ivory Keene's Cement: This is the hardest, densest gypsum material that is applied with a trowel. It is used as a finish coat over gypsum or lime bases. Ivory Keene's Cement is pure white in color, takes a high polish, resists fire, and is impenetrable to rodents and vermin.

Gauging Plasters: A patented manufacturing process, uniform calcination (burning), and exactly the correct fineness of grind insure the rapid absorption and superior spreading qualities of U S G gauging plasters. These materials are made in both "slow set" and "quick set" and are to be gauged with lime putty in the usual manner.

Ivory and Grand Prize Lime: U S G Finishing Lime is made at Genoa, Ohio, from pure limestone which contains the highest percentage of magnesium —the component which gives to lime its smooth and easy spreading qualities. Ivory and Grand Prize Lime are characterized by uniform whiteness; freedom from foreign matter; easy working qualities; and exceptional covering capacity.

For further details and literature, write to: **UNITED STATES GYPSUM CO., CHICAGO, ILL.**

KEYLOCK BASE for Stucco and Plaster

Patented and Manufactured by

THE FLINT ROCK STUCCO COMPANY, INC.

DAYTON, OHIO

Products

KEYLOCK Interlocking base for stucco and plaster.

FLINT-ROCK ALL-MINERAL STUCCO, ARCHITEX FINISH "Stucco, Granite Products," see page 83.

Keylock Base

A standard building material of strength and quality, representing in its patented features, many new improvements. These effect economy in its cost of application, insuring proper structural strength. It is recommended by competent testing engineers, research laboratories, stucco manufacturers and leading contractors.

FOR THE BUILDER WHO CARES

KEYLOCK consists of a heavy chipboard backing, upon which is spread a special quality asphalt mastic. In this mastic, carefully selected wood strips, chemically treated, with a patented cut on their edges, are embedded, stapled on and clinched with wire of heavy gauge. These wood strips are offset every eighth lath to automatically break joints.

KEYLOCK BASE is furnished in rolls of 100 sq. ft. Nails for application are included in each package. Easily warehoused, it comes on the job in perfect condition, and, because of its patented features, a saving in application costs is assured.

Nature of Keylock Base

(1)—KEYLOCK takes the place of sheathing, building paper, furring strips, lathing and nails.

(2)—KEYLOCK automatically breaks joints for studding, thus conforming to standard lathing practice. It is unnecessary to cut the backing. Just roll it down—it will interlock and fit.

(3)—Cuts ¼ in. deep are made into the edge of the wood strips. These cuts are 1⅜ in. long on the top side of the strips and 1¾ in. on bottom strip of each side of the wood strips. A longitudinal bevel cut along the edge of the lath is also furnished. The effect and the advantage of these cuts, is to effect a clinch at the widest part of the material, thus creating maximum strength with minimum material.

(4)—Wood Strips are chemically treated by impregnation with water-proofing chemicals, thus eliminating absorption that results in warping and distortion with ultimate failure of the mortar.

(5)—These woods strips, in addition to being embedded in the asphalt mastic, are stapled on and clinched, insuring absolute accuracy in spacing and making safe for practical warehousing and handling.

(6)—The heavy chipboard backing and asphalt mastic lend insulating and sound deadening qualities.

(7)—Water-proofing and vermin-proofing of the structure are insured by the heavy coat of asphalt.



A Complete Unit

(8)—Cost of proper application is minimized. Joints are easily broken and openings easily sawed out.

(9)—Comparative tests made by reputable laboratories have clearly shown the use of KEYLOCK to be superior to ordinary methods of construction.

Instructions for Keylock Application:

NAILING—Start the roll at the top of the studding with protruding strips extending over the edge. Use nails included in the roll. Nail each strip at different bearing point when used over studding, or furring, and not less than four nails to each strip over sheathing. The adjoining roll interlaces with the previous one, thus automatically breaking joints.

CUTTING—Saw across the strips in the same manner as when sawing lumber. Application is simplified by cutting out window openings, etc., after application.

Standard Specifications for Users of Keylock:

All exterior surfaces of frame wall having stucco finish, as indicated on drawings, shall be covered with KEYLOCK STUCCO BASE.

KEYLOCK BASE shall be applied according to the manufacturer's specifications, automatically breaking joints every eighth strip and securely nailing every strip with at least four nails.

Grounds or blocks shall be provided to secure all trim, brackets, pipe supports, etc. They shall be ¾ x 2 in. as shown or necessary, and shall be secured safely, true and plumb.

Ceilings and soffits throughout all floors shall be furred with ⅞ x 2-in. furring strips set 16 in. on center.

All interior walls and partitions, including ceilings and soffits throughout, shall be covered with standard, chemically treated offset joint KEYLOCK BASE applied as above indicated.

Important Information:

KEYLOCK is made to suit every individual demand, furnished in either straight or offset rolls, with KEYLOCK'S patented cut, or lath beveled in longitudinal direction, as ordered.

Descriptive literature is available to all architects, dealers, contractors and users and the manufacturers will be pleased to co-operate in specifications or proposed construction by submission of samples and specifications.

We are represented by dealers in all parts of the country. If your dealer does not handle our products, write us direct, giving us your dealer's name.

For further details and literature, write to: **THE FLINT ROCK STUCCO CO., Dayton, Ohio**

CRYSTAL SPAR for Walks and Driveways

Crystal Dash For Stucco

Made By

LIMESTONE PRODUCTS CORPORATION OF AMERICA

NEWTON, NEW JERSEY

PLANT: LIME CREST, SUSSEX CO., N. J. LEHIGH & HUDSON R. R.



PARTIAL VIEW OF PLANT
Annual Capacity: 600,000 Tons

Products

The products of this company are Crushed Limestone and Pulverized Limestone, the raw material for both products being quarried from what is probably the finest deposit of limestone in the United States. We are also producers and shippers of an exceptionally beautiful grade of Crystalline Stucco Dash.

Lime Crest TRADE MARK BRAND
Trade Mark

The Lime Crest Quarry

The stone in this exceptional quarry analyzes about 97 to 98% in Calcium Carbonate, 1 to 1½% Magnesia and about 1% Silica. There is little stripping required as the stone to a large extent crops out on the surface, as the stone formation lies horizontally there are no dirt pockets or dirt seams to contend with. The face of the quarry is 80 ft. high and being an open cut is perfectly dry and susceptible of being worked practically in all weather. The stone is a calcite and white.

Crystal Spar

We are large shippers of Crushed Limestone which is marketed under the name of "Crystal Spar." This is a beautiful white stone which makes the finest kind of walks and driveways—suggesting the coolness of snow in appearance and giving forth a delightful crunch as you walk on it.

Being pure white in color, walks and drives made of Crystal Spar contrast charmingly with the green of lawns and shrubbery and are easily distinguished at night. Such walks and drives retain their original beauty, for rain merely makes them whiter. The absorbent qualities of walks and drives made of Crystal Spar are very good so that a few minutes after a heavy shower one can walk dry-shod on them. Crystal Spar is sufficiently heavy to be uneffected by rain, and is not washed away like tanbark, or similar light material, sometimes used for constructing walks.

Covering Capacity

Crystal Spar is not expensive and one ton will cover 120 square feet 2 inches deep. On receipt of rough sketch of grounds surrounding house we will be glad to suggest best arrangement of walks and driveways and to quote price on necessary amount of Crystal Spar to properly construct them.

For Borders

Pieces of uncrushed limestone can be furnished for bordering the walks and drives and for constructing rockeries or decorative designs around flower beds. As lime is the most important element of plant food such borders serve a double purpose—nourishing the plants as well as providing a charming decoration to the grounds.

Pulverized Limestone

As noted above lime is an important element of plant food. Our Lime Crest Brand of Pulverized Lime is used for fertilizing lawns, flower beds and farms. It is ground extremely fine in order that it may be readily absorbed by the soil. Unlike manure, and other animal fertilizers, it has no unpleasant odor, but is a clean, sweet plant food that is applied merely by sprinkling it on top of the soil and leaving it for the rain to wash in, or it may be washed in immediately after application by spraying with a hose.

Three hundred pounds of Lime Crest Pulverized Limestone is the proper amount to use on 1000 square feet of lawn.

Crystal Dash

This Dash for stucco makes the most beautiful finish imaginable. It has a high lustre, due to its Crystalline character, and is white in color with a slight bluish tinge—the tones and sparkle one sees in new-fallen snow under moonlight. You must see this Dash in order to appreciate its exceptional beauty.

Samples

We are always glad to send samples of our product to anyone interested.



Beautiful Walks and Drives Add Greatly to the Charm of the Home

For further details and literature, write to: **Limestone Products Corporation of America** Newton, New Jersey

OHIO WHITE FINISHING LIME

Manufactured By

THE OHIO HYDRATE & SUPPLY CO.

WOODVILLE, OHIO

"The Lime Center of the World"

Made in Four Brands

Ohio White Finishing Lime is made in four brands: Ohio, Woodville, Buckeye and Hawk Spread White Finishes, distinguished by the four trademarks at the right.

Each brand is of the same high quality, will produce the same result, and is guaranteed to meet the standard specifications of the American Society for Testing materials.



TRADEMARKS

Easily Obtained

Ohio White Finishing Lime in one or more of its brands may be obtained practically anywhere in the United States. A daily plant capacity of six hundred tons and excellent shipping facilities assure our ability to supply our product in any quantity.

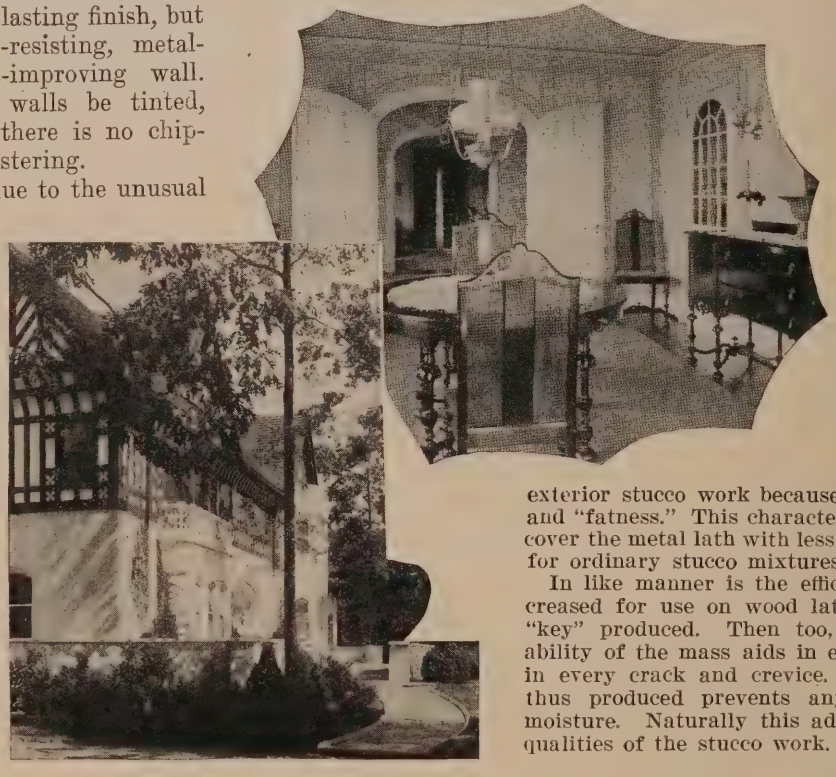
Provides Better Walls for Better Homes

Nothing adds more charm to the modern home than beautiful walls. Nor is anything more unsightly than chipped, cracked or blistered walls. Permanently beautiful, snowy white walls are easily obtained through the use of Ohio White Finishing Lime.

It not only gives a lasting finish, but also produces a fire-resisting, metal-preserving, acoustics-improving wall. No matter whether walls be tinted, painted or papered, there is no chipping, cracking or blistering.

These results are due to the unusual purity and peculiar natural composition of the dolomitic limestone from which it is made. Being exceedingly "fat" or plastic it provides maximum coverage with minimum of labor and material.

In humble cottage or luxurious mansion, Ohio White Finishing Lime accomplishes the extraordinary because it is a better-than-ordinary lime.



Where It Should Be Used

The following list is given as representing the general classifications of work where Ohio White Finishing Lime can and should be used.

For White Coating

If closely examined with a microscope, the white coating in which any Ohio White Finish product has been used would be found to be filled with minute pores. Peculiarly enough, these pores play a very important part in the successful acoustics of a room. Although too small for the naked eye to see, yet they break up and absorb the sound waves, preventing any rebound which is the reason for the echo nuisance where this porosity does not exist.

Another distinct advantage realized is the permanency of the walls which affords a like degree of permanency in the decorations. If white coated walls are allowed to stand undecorated for at least one year, this permits the building to settle so that any cracks which may result from the settling, can be properly filled and allowed to harden. The result is a perfectly smooth, white wall, capable of being made permanently beautiful because of the corresponding permanency of Ohio White Finish Lime.

Scratch and Brown Coats

The uniform quality and unusual plasticity of Ohio White Lime have made it an important factor in high grade interior plaster work including scratch and brown coats.

As a matter of fact, there is no kind of plaster work where Ohio White Lime plaster does not excel. It can be used on all kinds and grades of material with better results in acoustics, light, sanitation, appearance and life of the wall.

Exterior Stucco Work

The use of Ohio White Lime as an admixture to cement greatly improves exterior stucco work because of its unusual plasticity and "fatness." This characteristic makes it possible to cover the metal lath with less pressure than is required for ordinary stucco mixtures.

In like manner is the efficiency of the mixture increased for use on wood lath because of the liberal "key" produced. Then too, the plasticity or workability of the mass aids in effecting a complete "fill" in every crack and crevice. The monolithic surface thus produced prevents any absorption of outside moisture. Naturally this adds greatly to the lasting qualities of the stucco work.

For further details and literature, write to: **THE OHIO HYDRATE & SUPPLY CO., Woodville, Ohio**

Water-tight Concrete Work

The addition of Ohio White Lime to any concrete mixture in the proportion of 5% to 10% of the weight of the cement used, renders the mixture much easier to handle. The plasticity of the lime lubricates the mixture, making it mix better, pour easier, and run into the forms and around the reinforcing much more evenly and uniformly, making it possible to attain a clean, smooth finish.

The increased density of the mass, resulting from the use of Ohio White Lime, renders the concrete work practically water-tight, hence far more permanent.

Lime-Cement Mixtures

Portland cement mixtures are greatly improved through the use of Ohio White lime. It possesses certain lubricating properties which facilitate the movement of the mixture through the chutes as well as aiding in its handling.

It also acts adhesively, holding the mass together, thereby preventing a separation of the sand and stone from the cement. In other words, the addition of Ohio White Lime renders the mixture more plastic, easier to handle and easier to spread, which alone effects a saving in labor.



Then too, the same qualities which cause the greater plasticity, tend toward a closer contact in the mass with the result that the density of the mixture is increased and its resistive powers greatly multiplied. It is because of this peculiar characteristic that cement mixtures in which Ohio White Lime is used, are much denser and far less liable to crack.

Mortar

Portland cement mortars can be produced much easier and cheaper through the use of Ohio White Lime. Not only does it make the mixture easier to handle, but also does away with the labor ordinarily required to slake the lump lime.

It can readily be realized that the use of mortar of such plasticity will naturally allow the brick, stone, tile or other material, to become more firmly embedded. This, of course, produces a compactness which obviously must add strength to the entire work. Likewise does this same characteristic tend to make the work more water-tight, while also making it possible to work the material in low temperature when ordinary cement mortar could not be safely handled.

SPECIFICATIONS:

Materials

The building is to be plastered throughout with lime plaster made with one of the four brands of Ohio White Lime and sand of the quality mentioned below. All materials are to be applied in thorough and workmanlike manner. Specifications must be followed in detail and contractor must remove all his unused material, scaffolding, rubbish, etc., from the premises. Where lime is mentioned in these specifications, it shall mean Ohio White Lime, which has been slaked at the mill by the manufacturer, each sack bearing the name of the manufacturer, THE OHIO HYDRATE & SUPPLY CO.

When material is delivered sanded on the job, the sacks must bear the name of mixing plant where same was mixed. Where sand is mentioned, it shall mean a clean, sharp sand such as will pass through a No. 8 screen (64 meshes to the square inch) and to contain not over 5% loam. Where wood lath is mentioned, it shall mean ⅜ x 1½ in. No. 1 spruce, hemlock, white or Norway pine lath, free from knots, sap, bark or other imperfections. Where calcined plaster (plaster of paris) is mentioned it shall mean a standard grade of finely pulverized calcined plaster, free from lumps and suitable for gauging finishing lime putty.

Finish Coat

The finish coat is to be applied when the second coat is dry. The second coat is to be sprinkled generously with clean water before applying the finish coat. Soak Ohio White Finishing Lime overnight (24 hours is better) before using. Form the putty into a ring on the mortar board and add about 20 lbs. of calcined plaster to each 100 lbs. of Ohio White Finishing Lime, working it thoroughly. Finish coat is to be applied in a first class, workmanlike manner and troweled to a smoothly polished surface free from brush marks.

Wood Lath (Three-coat Work)

Scratch coat: 1500 lbs. sand, 450 lbs. Ohio White Lime, 3½ lbs. hair. Brown coat: 1600 lbs. sand, 400 lbs. Ohio White Lime, 1½ lbs. hair. Finish coat: Ohio White Lime putty, to be gauged as indicated above.

Wood Lath (Two-coat Work)

First coat: 1550 lbs. sand, 450 lbs. Ohio White Lime, 3½ lbs. hair. Finish coat: Ohio White Lime putty, to be gauged as previously indicated.

Brick or Tile (Three-coat Work)

Scratch coat: 1600 lbs. sand, 400 lbs. Ohio White Lime, 1½ lbs. hair. Brown coat: 1600 lbs. sand, 400 lbs. Ohio White Lime. Finish coat: Ohio White Lime putty, to be gauged as previously indicated.

Metal Lath (Three-coat Work)

Scratch coat: 1500 lbs. sand, 450 lbs. Ohio White Lime, 4½ lbs. hair. Brown coat: 1600 lbs. sand, 400 lbs. Ohio White Lime, 1½ lbs. hair. 15% to 20% cement by weight of lime is recommended for gauging scratch or brown coat plaster to accelerate setting. Finish coat: Ohio White Lime putty, to be gauged as previously indicated.

Sand Float Finish

475 lbs. Ohio White Lime, 1525 lbs. sand.

Portland Cement Concrete—Add 10% Ohio White Lime by weight of Portland Cement to secure a plastic, dense and reliable concrete. Portland Cement mortar: Add 40 lbs. of Ohio White Lime to every 100 lbs. of cement for economical mortar of required strength for producing a tight, waterproof joint and a plastic consistency requiring less effort to apply. This mixture will produce a stronger joint than straight cement mortar.

Write for Booklet



Every Contractor and Home Builder should read this interesting booklet entitled "A Job That Took a Million Years, or The Tale of the Clam". It tells the story of lime as never told before. A copy will be mailed you postpaid upon request. Write for it today.

Finishing and All-Around Building Hydrated Lime

Manufactured by

General Offices
Toledo, Ohio

THE WOODVILLE LIME PRODUCTS COMPANY
TOLEDO, OHIO

Quarry and Plant
Woodville, Ohio



View of plant and quarry of The Woodville Lime Products Company at Woodville, Ohio. With the addition of a new battery of twelve kilns, shown in the foreground, this company now has three batteries or a total of fifty-three kilns in operation.

Nature at Her Best

Digging into the earth we find nature's handiwork in various stages of perfection. Somewhere we find the best coal, the finest ore or the greatest deposit of petroleum.

So it is with limestone. The country is dotted with tracts of limestone. Somewhere nature had to excel herself, and she did!

Our quarry, according to experts, is the finest deposit of limestone for making finishing and building hydrated lime, to be found anywhere. Nature in her most gracious mood left millions of tons of clean, pure, solid rock composed of correctly balanced proportions of magnesium carbonate and calsium carbonate which produces lime of superlative quality.

A Remarkable Quarry

It takes no chemist to discover the wonderful quality of our limestone. A view of our quarry is sufficient to impress anyone that it contains limestone of unusual properties.

As one stands on the edge of our quarry, an amazing sight greets the eye. On a floor as firm and as level as a city pavement, three large steam shovels and six busy little engines puff and steam day in and day out loading stone and hauling it to a mammoth crusher.

Surrounding this busy scene is a solid, perpendicular wall of clean, solid rock which rises above the floor of the quarry to a height of sixty-five feet.

As far as the eye can carry, not a seam, fissure, break or patch of dirt, stripping or unworkable stone may be seen.

This quarry, gradually enlarging each year, and despite continual additions and enlargements to our plant, promises to supply limestone in adequate quantities for a hundred years to come.

Located on the edge of this magnificent quarry is a gigantic stone crusher which takes great chunks of solid rock and crunches them into thousand of pieces.

The crushed rock is conveyed to graduated screens where kiln stone of a uniform size is obtained. The uniformity of our kiln stone is worthy of note, as it standardizes burning which has an important bearing on the high grade lime we produce.

With this marvelous limestone available, it is only natural that we preserve and develop this quality by modern lime-making methods.

Our manufacturing experience extends over a period of twenty-five years. We began over a quarter of a century ago as pioneers in the hydration of lime.

During this time our lime has gained a country-wide reputation among architects, contractors, plasterers and owners as being the finest finishing hydrated lime it is possible to obtain.

A Marvelous Finishing Lime

Our product is distributed under three brand names, namely White Enamel, Gold Medal and White Lily Finishing Hydrated Lime.

As a finish, these brands produce snow-white walls which set with a stone-like hardness. Due to the purity of our lime, walls finished with our brands are free of "core" and other foreign substances which tend to streak, strain, mar, pit, pop or blister.

White Enamel Gold Metal and White Lily are favorites with plasterers owing to easy spreading properties, and to the fact that our lime does not roll up or work short under the trowel.

A workman may do more work with our finish, and produce better results.

An All-Around Building Lime

White Enamel, Gold Medal and White Lily brands are an ideal lime for all building purposes where a high-grade, uniform and dependable lime is required.

Where lime is specified to be used in mortar, stucco, concrete, brown or scratch coat plaster; White Enamel,

For further details and literature, write to: **THE WOODVILLE LIME PRODUCTS COMPANY, Toledo, Ohio**

The Woodville Lime Products Company (Continued)

Gold Medal or White Lily brands may be used with greater economy and better results for the reason that less of our lime is required to obtain the desired results as compared to mason's lump or gray lime.

White Enamel, Gold Medal or White Lily Hydrated Lime in Mortar

Contractors and masons have found by experience that they can make a mortar with less quantities of White Enamel, Gold Medal or White Lily brands with ordinary lime, and still produce better results.

It is therefore just as economical to use White Enamel, Gold Medal or White Lily brands in mortar as it is to use ordinary mason's lime, and the results are decidedly better.

By reason of the wonderful plasticity and coalescent qualities of these brands of lime, mortar mixed with White Enamel, Gold Medal or White Lily has greater sand carrying capacity, will work easier, adhere better and get stronger.

The resultant masonry is more impervious to water, moisture and winds. The structural units are better imbedded, and masons are able to do more and better work with less effort.

White Enamel, Gold Medal and White Lily Brands in Concrete

The functions of concrete in construction are so important that high grade lime, such as we produce, is practically essential for the best results when lime is specified to be used with concrete.

White Enamel, Gold Medal and White Lily brands of hydrated lime are the most efficient integral water-tightening mediums available today. This lime imparts plasticity to concrete and makes it more workable, reduces finishing and placing costs, and gives concrete mixtures easier working qualities and greater molding properties with a minimum amount of water.

The smooth, uniform texture of our lime adds a slippery quality to concrete which makes it travel through chutes with greater ease and rapidity. For the same reason, concrete containing a mix of White Enamel, Gold Medal or White Lily prevents segregation of aggregate, honeycoming, stone pockets and makes it water-proof.

Thus the advantages of using a high grade lime more than offsets the use of ordinary lime, and adds nothing to the cost as White Enamel, Gold Medal or White Lily brands may be used in less quantities to obtain the desired results.

A Trial Will Convince

Regardless of what we say regarding White Enamel, Gold Medal or White Lily brands of Finishing Hydrated Lime, the fact remains that nothing is quite so convincing as an actual trial of any one of these brands under actual working conditions.

You are doubtless persuaded that these brands are all we claim for them, yet are of the opinion there are other brands on the market of equal excellence.

Only a trial will convince you of the difference in quality, in uniformity, in purity, in whiteness and in results. We freely admit that we have no secret or unusual methods of manufacture. We claim, however, that *limestone cannot be manufactured.* It is a product of nature, and if the natural ingredients of limestone are not fundamentally right or correctly balanced to produce a high grade lime, modern processes of manufacture cannot overcome this handicap.

We not only have limestone that is fundamentally right, but we know how to make good lime. A trial of White Enamel, Gold Medal or White Lily will convince you that it is good lime.

Specifications for White Coat Finish

Use White Enamel, Gold Medal or White Lily Hydrated Lime and the best grade of finely ground calcined plaster. Guage about 10 to 20 pounds of calcined plaster to each 100 lbs. of Hydrated Lime, dry finish. If sand (or marble dust) is to be used in putty coat, add the specified amount.

Directions for Preparation—Fill Lime box with necessary amount of water (four or five inches) then pour in hydrated lime direct from sacks and distribute it evenly in the box. If water is drawn from a hose, sprinkle the lime as it is spread in. There should be enough water used so that when lime is left to soak, it is a wet, soft mass. Sixteen to eighteen gallons of water to every one hundred pounds of Hydrated Lime will give batch the right consistency. It should then be left to soak from ten to fifteen hours as it works better when well soaked. During this time do not stir.

Application—The brown coats in connection with gypsum (hard wall) plaster shall have become dry before the finish coat is applied.

The brown coat in connection with lime plaster shall have become firmly set, but not dry, before the finish coat is applied. Trowel white finish down with water, same as with lump lime putty, to a smooth perfect surface.

Covering Capacity—Eight hundred to one thousand square yards to the ton of finish for the average white coat job. For extra good work, or if base coat is rough, it will run somewhat less.



White Enamel, Gold Medal and White Lily brands of Finishing Hydrated Lime are sacked in 50-pound heavy paper valve bags. Air-tight storage is not necessary for these brands as this lime has been scientifically slacked and all excess moisture expelled before shipping. Each one of these brands is of equal quality—the highest. Sold practically everywhere by building supply dealers.

For further details and literature, write to: **THE WOODVILLE LIME PRODUCTS COMPANY, Toledo, Ohio**

TIGER LIMES

Manufactured By

THE KELLEY ISLAND LIME AND TRANSPORT CO.

World's Largest Producer of Lime

Leader News Building, Cleveland

Products

Tiger White Rock Finish Hydrated Lime, ordinarily known as *Tiger Finish; Tiger Mason's Hydrated Lime,* generally known as *Tiger Mason's.*

Also lime products for agricultural and chemical purposes.

Slogan

Because it spreads so easily and covers so many yards per sack, the phrase "Spreads like warm butter" has long been associated with *Tiger Finish.*

Facilities and Distribution

The Kelley Island Lime & Transport Co. is the world's largest producer of lime and limestone products. This company has eleven plants conveniently located. All correspondence should be addressed to the General Offices at Cleveland.

Tiger Finish and Tiger Mason's are packed in 50 lb. valve paper sacks, which always bear the *Tiger* trademark. They are handled by over four thousand builders' supply dealers in all parts of the United States.



Lime plastering is without equal for interior finish. It is sound absorbent, sanitary, and fire resisting. Only with plaster can you secure distinctive effects in texture finish, curved surfaces, and decorative panels or cornices.

Lump Lime and Hydrated Lime

Builders, architects and contractors realize a great saving of time, space and expense in using Tiger Hydrated Lime. The value of hydrated lime is an assurance of perfect slaking in the hydrated product, and its ability to keep in good condition when stored in a dry place. Lump lime furnished when desired.

Tiger White Rock Finish Hydrated Lime—Tiger Finish

Nowhere else in all the world have the magnesium limestone deposits in White Rock, Ohio, ever been equalled. Nature has provided there a rock that is acknowledged to be the best for producing finishing lime. The snowy whiteness of *Tiger Finish* is due to this natural advantage plus a scientific process of refining. The result is a lime which makes a putty that spreads like warm butter and covers more yards of wall surface. (Covers about 800 sq. yds. per ton). Uniform high quality maintained for more than a quarter century has made *Tiger Finish* first choice of architect, builder, plasterer and owner.

Tiger Mason's, properly proportioned with sand and hair, is applied as scratch or brown coat to wood or metal lath, hollow tile, brick or gypsum block.

Tiger Finish produces a perfect white finish when mixed with a fine sand, it forms a good sand finish.

In Interior Plastering—(1) Hydrated lime has long been considered a valuable constituent of plaster and is regularly used for one, two, or three-coat work.

(2) Hydrated lime plaster is an excellent sound absorbing material. The reason for this is due to its porous nature in the hardened state and its great sand carrying capacity.

(3) It is the most sanitary of plasters.

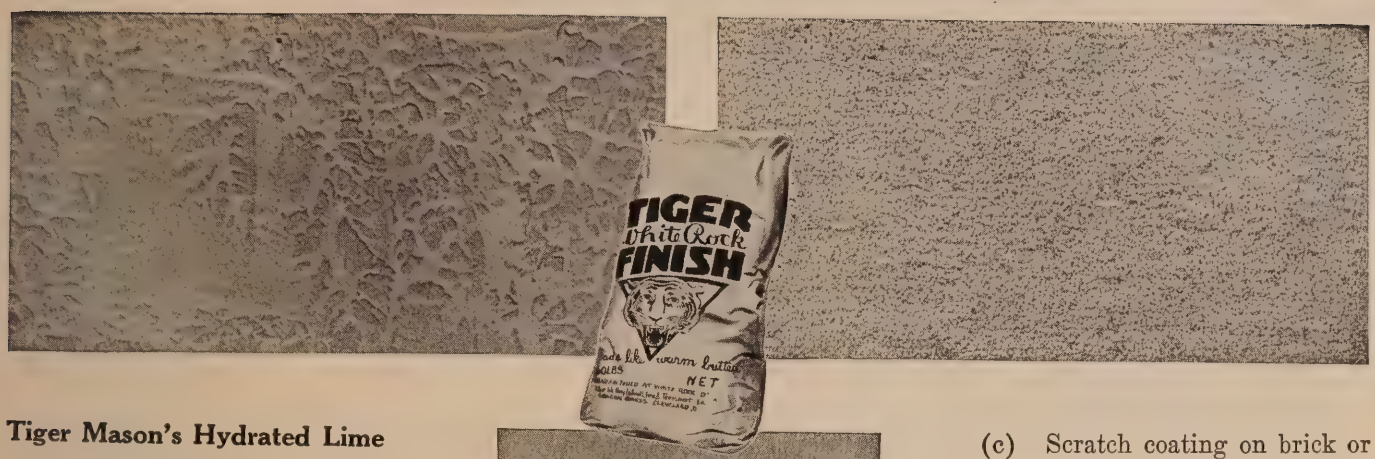
(4) It is fire resisting.

(5) Its covering capacities are extremely large.

(6) Its easy working qualities make the highest class workmanship possible and encourage faster work.

(7) It has great tensile strength.

TIGER LIMES (Cont'd)



Tiger Mason's Hydrated Lime

(1) *Tiger Mason's* improves the spreading quality of cement mortar, making an easy working mortar of high compressive strength that forms a better bond. It eliminates the labor required to slake lump lime.

(2) It helps to retain sufficient moisture, thereby allowing a good bonding surface of the masonry unit.

(3) *Tiger Mason's* contains all the ingredients necessary for an easy working lime mortar and for Portland cement mixtures.



Many texture finishes are secured by varying the amount and size of sand and using cork, wood, or carpet floats. For all surfaces Tiger Finish is without equal.

In Concrete Mixtures—(1) Hydrated lime lubricates the mix so that it flows freely through the chutes.

(2) It positively aids in preventing segregation of aggregates.

(3) It produces smooth exterior surfaces, and minimizes honey-combing and hair cracking.

(4) It increases the density and water tightness of the concrete by virtue of remarkable void filling properties.

Amounts to Use

For all concrete work and stucco—10% of hydrated lime by weight of Portland cement used.

For general brickwork, stone, marble, granite and tile setting—25, 50 or 100% of Tiger hydrated lime by weight of Portland cement to 3 to 4 parts sand makes a good mortar. The 100%, or what is known as 50-50 mortar, is highly recommended.

General Directions for Interior Plastering

(1) All materials to be delivered on the job in the manufacturers' packages and kept dry.

(2) All plastering for the interior of the building to be *Tiger Finish* mixed on the job in correct proportions.

(3) (a) Scratch coating on wood lath to be mixed in proportions of 1550 lbs. of sand to 450 lbs. hydrated lime and 4 lbs. hair.

(b) Scratch coating on metal lath to be mixed in proportions of 1550 lbs. of sand to 450 lbs. hydrated lime and 4 lbs. hair.

(c) Scratch coating on brick or tile to be mixed in proportions of 1600 lbs. of sand to 400 lbs. hydrated lime and 1½ lbs. hair.

Apply the scratch coat lightly, but with sufficient pressure to obtain a good clinch. Scratch the face to strengthen bond for brown coat. Allow scratch coat to dry before applying brown coat.

(4) (a) Brown coating on wood or metal lath to be mixed in proportion of 1600 lbs. of sand to 400 lbs. hydrated lime and 1½ lbs. of hair.

(b) Brown coating on brick or tile to be mixed in proportions of 1600 lbs. of sand to 400 lbs. hydrated lime.

Apply enough material to bring out the grounds, using rod and darby to form an even surface and straight angles. When surface is firm but not thoroughly dry handfloat to prevent shrinkage cracks in both brown and finish coats.

Finish Coat (White)—Soak *Tiger Finish* lime 24 hours if possible to form a plastic putty. Thoroughly mix putty with 20 to 30% of high grade plaster to a working consistency. Apply with trowel and bring to a smooth surface, keeping same moist during operation. Trowel surface to the desired effect.

Sand Finish—Mix a good plastering sand with *Tiger Finish* hydrated lime in proportions 3 parts sand to 1 part of lime. While in a dry state screen through a No. 10 to 15 mesh screen, then add water to bring to a plastic consistency. If possible, allow finish to stand over night before applying, forming an easy spreading material. Apply with trowel to an even surface, then scour with water brush and float to desired effect.

Service Department

This company will be glad to discuss any problem in connection with the use of hydrated lime.

"Studies in Lime" is an attractive book in colors, illustrating many interior designs and texture finishes and giving working details for plastering decoration. Free on request.

For further details and literature, write to: **The Kelley Island Lime and Transport Co.** Leader News Building, Cleveland, Ohio

ARMSTRONG'S CORKBOARD INSULATION FOR RESIDENTIAL BUILDINGS

Made By

ARMSTRONG CORK & INSULATION COMPANY

210 Twenty-Fourth St., Pittsburgh, Pa.

BRANCHES IN THE PRINCIPAL CITIES

A generation ago, home builders paid little attention to the insulation of their walls and roofs. Fuel was cheap and the principles of insulation and its relation to comfort and economy in the home were not generally understood. But the situation is very different today. Fuel is expensive and fuel economy a very important consideration with most people. Moreover, it is now recognized that only by means of insulation can the house be adequately protected against summer's heat and winter's cold. The use of insulation of the proper kind and in sufficient thickness insures a house that is cooler in summer and warmer in winter; one that is freer from drafts, and more easily and uniformly heated with a smaller plant and less fuel.

There is nothing new or experimental about Armstrong's Corkboard. On the contrary, corkboard has for many years been the one insulation generally recognized in the industries as being the most efficient practical and structurally serviceable insulation known. For 30 years Armstrong's Corkboard has been used, for example, in cold storage construction in exactly the same way, except for thickness, as it is now used in houses. In efficiency, durability, and structural adaptability, corkboard is today the established standard, proved by years of service superior to every other type of insulation.



Nailing Armstrong's Corkboard to the roof rafters. Residence of Mr. G. Jungling, Cincinnati, O.

Armstrong's Corkboard is made of granules of pure cork compressed in sheets. It is nonabsorbent of moisture and not subject to deterioration through mold, decay or any other form of disintegration. It is a fire retardant, vermin proof, and will not shrink, swell, or buckle. Armstrong's Corkboard once installed is as permanent as the house itself.

Armstrong's Corkboard is made in boards 12x32 and 36 inches and 1, 1½, 2, and 3 inches thick. It is more easily cut and sawed than lumber and is readily erected by nailing in frame construction or in cement mortar against brick,



Armstrong's Corkboard erected in cement on tile walls and nailed to second floor ceiling, ready for plastering. Residence of Mr. H. W. Prentis, Jr., Lancaster, Pa.

tile, concrete, and stone. It is generally applied on the inside surfaces of walls and plaster applied directly on the corkboard *without the use of lath.* For stucco finished houses Armstrong's Corkboard may be used on the exterior of the walls. Roofs are usually insulated by nailing the corkboard to the underside of the rafters and plastering, if the attic is finished; by laying over the top floor joists in an unfinished attic; or as a ceiling on the underside of the top-floor joists, finished with plaster.

Armstrong's Corkboard is not expensive. On the contrary its first cost is very moderate and its use makes possible economies that easily repay the entire investment in a very short time. For example, a house insulated with Armstrong's Corkboard can be comfortably heated with a much smaller plant than would otherwise be required. This saving alone reduces the net cost of the insulation to a very small percentage of the cost of the house. Another saving is the omission of lath from the insulated walls and ceilings. Then there is that very important economy, the year-after-year saving in fuel amounting to a third or more, which makes Armstrong's Corkboard insulation one of the best paying investments you can build into your house.

That is the financial side of insulation which takes no account of comfort and health factors that cannot be valued in money and yet are so indispensable as to make cork insulation worth many times its cost.

In the light of all that is known about insulation and what it means in comfort, health, and economy, you cannot afford to build without it. Full particulars about Armstrong's Corkboard with a sample of the material will be supplied on request and without obligation.

Cabot's Heat-Insulating and Sound Deadening "Quilt"

Manufactured by

SAMUEL CABOT, INC.

NEW YORK
342 Madison Ave.

BOSTON, 141 Milk St.

CHICAGO
5000 Bloomingdale Ave.

Real Estate Trust Bldg., Philadelphia; 2035 E. 19th St., Kansas City; Builders' Exchange, Minneapolis; Hibernian Bldg., Los Angeles; 444 Market St., San Francisco; 96 Front St., Portland Oregon. Agents all over the Country.

Other Products

Cabot's Creosote Shingle Stains, Stained Shingles, Old Virginia White, Double-White, Stucco and Brick Stains, Mortar Colors, Waterproofings, Wood Preservatives, etc. See Page 157.



Old Pierce House, Dorchester, Mass.
Built about 1635

The walls of this house were stuffed with eel-grass when the house was built, about 1635, and the grass is still in a perfect state of preservation. We have a sample of this 290-year-old eel-grass in our office, and this rot-proof grass which grows in the ocean is the material used in making Cabot's Quilt.

The Babcock House, Milton, Mass., built 1723, and other old houses in Connecticut, Nova Scotia, etc., are insulated in the same way.

Cabot's "Quilt"

Purposes: For Heat-Insulation in roofs and walls of houses, in roofs of factories mercantile buildings and hotels, in walls, ceilings and partitions of cold storage warehouses and refrigerators, etc. For Sound-deadening in floors and partitions of apartments, hotels, schools, musical studios, offices, gymnasiums, etc.

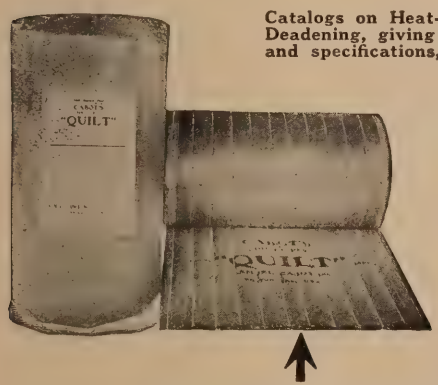
Heat-Insulation: "Quilt" is a flexible, resilient cushion of "dead" air-spaces. Dead air—which cannot circulate and conduct heat—is the best insulator known. One layer of double-ply "Quilt" holds heat better than 40 layers of common building paper, or 3" of board or 9" of brickwork.

Sound-Deadening: "Quilt" breaks up and absorbs sound-waves. Can be applied in any kind of floor, ceiling or partition—frame, metal or plaster block. Over thirty years of successful deadening.

Flexible: "Quilt" is flexible and will fit any surface, turn any corners or cover any jogs or projections.

Fire-Resistant: Will not burn. Makes an efficient fire-protection in walls or floors.

Decay-Proof, Permanent: Will not rot or get foul. Repels insects and vermin. Cannot swell or warp or cause plaster cracks.

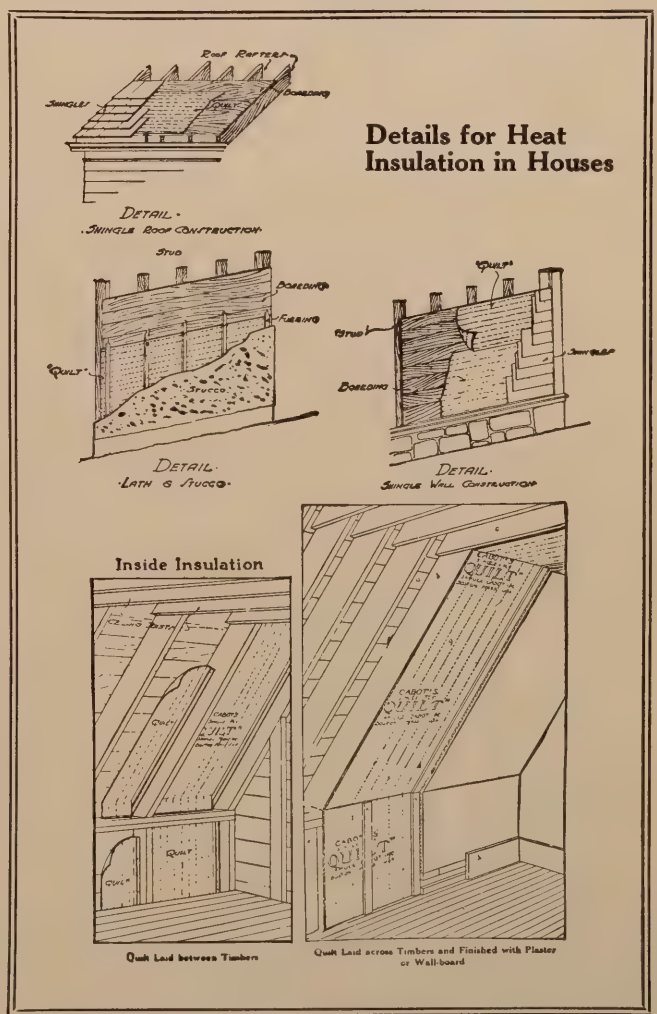


Catalogs on Heat-Insulation and Sound-Deadening, giving full detailed drawings and specifications, sent free on request.

Narrow Stitching for dividing Roll into two 18" widths, to lay between studs.

Quilt is sold in rolls of 250 square feet each. It is one yard wide, very strong and entirely flexible, fitting into or around any jogs or projections. It is made of cured eel-grass, stiched in three-inch widths between kraft paper.

Eel-grass (1) will not rot; (2) will not burn; (3) will not harbor insects or vermin. It has a flat, crinkly fibre that forms an elastic cushion of dead-air spaces. "Dead" air is the most efficient non-conductor of heat.



For further details and literature, write to: **SAMUEL CABOT, INC., Boston, Mass.**

Celotex Insulating Lumber

BRANCH SALES OFFICES:
(See Telephone Books for Addresses)
Boston
Cleveland
Dallas
Denver
Detroit
Kansas City
London (Eng.)
Los Angeles
Miami
Milwaukee

Manufactured by
THE CELOTEX COMPANY
645 North Michigan Ave., Chicago
Mills: New Orleans, La.
CANADIAN REPRESENTATIVES:
Alexander Murray & Company, Limited, Montreal, Toronto
Halifax, Winnipeg, Vancouver.

BRANCH SALES OFFICES:
(See Telephone Books for Addresses)
Minneapolis
New Orleans
New York
Philadelphia
Portland, Ore.
Salt Lake City
San Francisco
Seattle
St. Louis
St. Paul

Products:

Celotex Insulating Lumber is a felted and waterproofed cane fibre board with heat insulating value of 0.33 B. T. U. per hour per inch thickness and strength in wall sections greater than horizontal pine sheathing. It has a higher sound insulation value than standard deadening felts.

It is manufactured in several different grades and qualities. A board is made for home construction known as

CELOTEX
INSULATING LUMBER
Trade Mark

Celotex Standard Building Board:

When insulated by the use of Celotex Standard Building Board as a part of the structure, a home or other building is stronger, warmer, quieter and more healthful.

It is free from drafts and dampness and a saving of approximately 1-3 of each year's fuel expense is effected.

This is accomplished with no extra expense to the builder in his original construction costs as Celotex replaces other materials and reduces the size of the heating plant.

For information regarding other kinds of Celotex Insulating Lumber, address company's general offices.

Sizes:

Thickness approximately 7/16 inch; average weight, 60 lbs. per 100 square feet; width, 4 feet; length. 8 to 12 feet.

Principal Uses:

A. Sheathing (and insulation) for frame and brick veneer buildings, replacing wood sheathing.
B. With plaster applied directly to its surface (and insulation) replacing lath or plaster board.
C. Roof Insulation.
D. Floor and wall sound deadener.
E. Interior and exterior wall finish. (Can be painted or stained or left natural.)

Standard Specifications for the Application of Standard Building Board to Open Framing

Framing: The sills, studs, plates, joists, rafters and furring strips on masonry walls, shall be framed as in ordinary frame construction, taking precaution, however, to space the studs, joists and rafters 16 in. on center. Wherever it is necessary to have a horizontal joint in the Celotex, a 2 in. x 4 in. header shall be cut in between the framing. No bracing is necessary other than is usual in frame construction.

NOTE: Where Celotex is used on ceilings with plaster applied directly to its surface or over stripping on masonry walls, a 2x4 header or a furring strip shall be cut in every 4 feet for nailing.

Preparation of Celotex (Wetting) Important: Celotex boards shall be moistened on both sides by sprinkling or spraying and piled, not less than one day before application of boards to walls, except where applied as interior finish to other flat wall surfaces.

Application: The Celotex boards shall be applied lengthwise of studs, joists and rafters, directly to the wood frame work, and set in place so as to have a bearing for nailing along all edges.

Leave 3/16 in. space between adjoining boards, also at top and bottom of boards. The board is cut a scant 4 ft. to allow for this space. Around window and door frames, or where a snug point is desired, the Celotex shall be brought to moderate contact. DO NOT force into place.

Where rafters project beyond face of studding, Celotex shall be cut to fit snugly around rafters, and to form close joint with the roof insulation.

Nailing: Nail the Celotex to intermediate studs, beginning at top, then entirely around all edges of each board. Nail in like manner to joists, rafters, sills, plates and headers. Use standard 1½ in. galvanized roofing nails with ⅜ in. heads. Space nails 3 in. apart along edges for sheathing, and 2 in. apart for plaster and wallpaper base, and 6 in. apart along intermediate rows, driving nails until the heads are 1/16 in. to ⅛ in. below the surface of the Celotex. Nails shall be placed approximately ⅜ in. from the edge of the boards.

NOTE: Where Celotex is to be used as an interior finish, all exposed surfaces shall be nailed with 1¾ in. finishing nails spaced 3 in. on centers. They shall be driven at an angle of 30 degrees, staggering the angles, and set in with a nail-set so that the heads will lie slightly below the surface of the Celotex.

NOTE: Where Celotex is applied to wood strips on masonry walls use 1¼ in. nails with ⅜ in. heads.



On exterior walls Celotex serves as sheathing and insulation—replacing lumber.

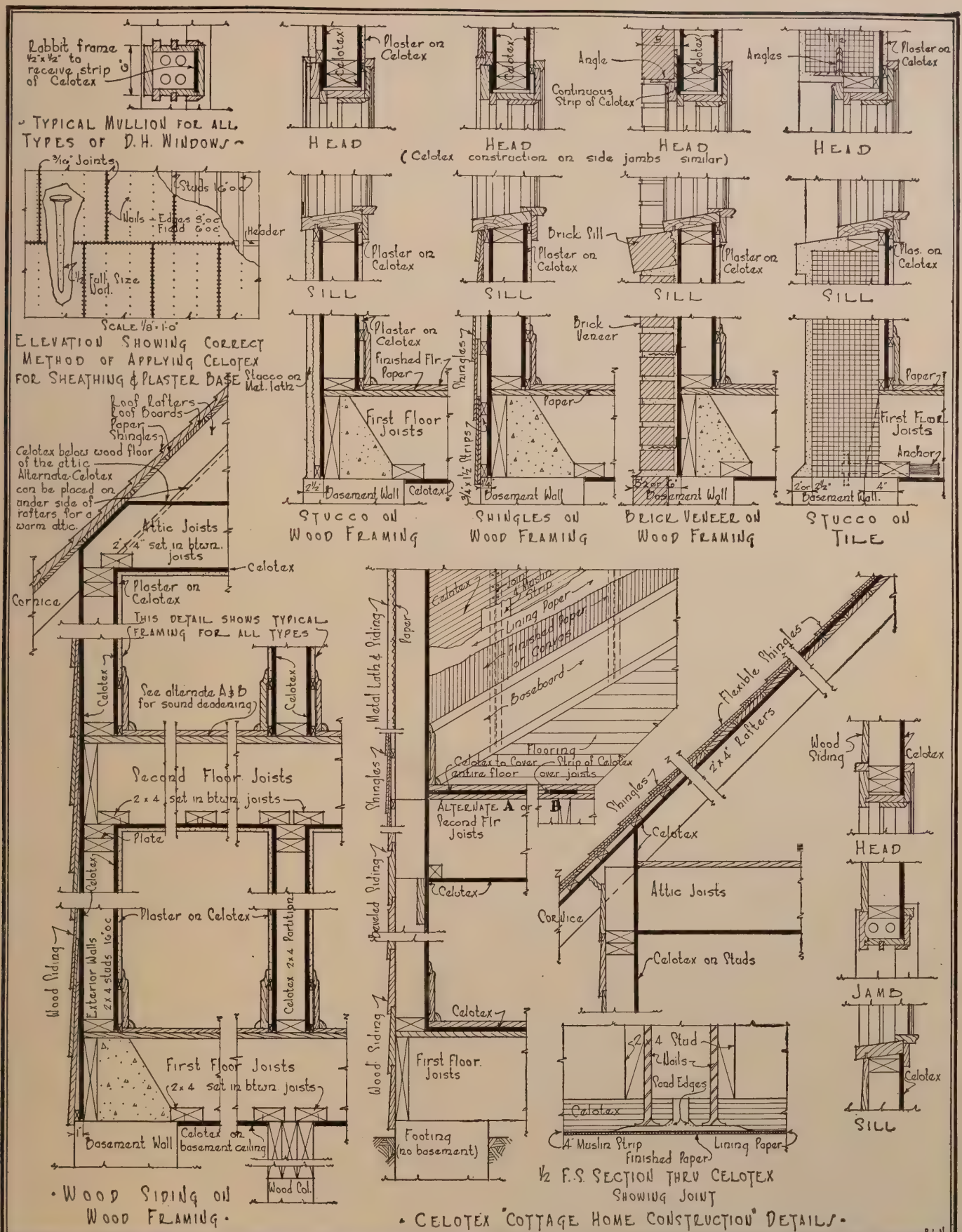


On interior walls plaster is applied directly to Celotex. This use eliminates the lath ordinarily used.



Celotex sound deadens interior walls and floors.

For further details and literature, write to: **THE CELOTEX COMPANY, CHICAGO**



THE CELOTEX COMPANY	DETAILS SHOWING APPLICATION OF CELOTEX TO SEVERAL TYPES OF CONSTRUCTION	SHEET NO. 1 SCALE 3/4" EQUALS 1'-0"

For further details and literature, write to: THE CELOTEX COMPANY, CHICAGO.

Application of Plaster:

Do not moisten Celotex after application before applying plaster. Prepared wood fibre or Gypsum plaster containing not more than 10% of lime content shall be used. If neat gypsum plaster is used, mix one part with not more than two parts of clean coarse, sharp sand, free from loam or other foreign matter.

If sanded gypsum plaster or gypsum wood fibre plaster are used, mix according to manufacturers' directions. Plaster that will "set" in 1½ to 2 hours should be used. Apply plaster directly to Celotex, in the same manner as applied to lath, pressing the plaster thoroughly into the joints between sheets of Celotex, completely filling joint to the lumber base. This forms a full key reinforcing the joint. The first coat must have a thickness of not less than ⅜ in. In all plaster work the finished plaster thickness shall be not less than ½ in.

Any type of finish coat may be used, provided its thickness is not more than ⅛ in. The use of lime plaster, or lime mixed with gypsum plaster is not recommended, except for finish coat.

Celotex provides for the plasterer a wide flat area and sometimes the temptation is to skimp the plaster. The thickness of plaster over Celotex must be equal to that over lath.

Ventilation:

(Important). Moisture will not pass through Celotex as through lath. The plaster must dry by giving up its moisture to the air in the room. It is absolutely necessary, especially in winter, to give proper attention to heat and ventilation while plaster is drying. Failure to ventilate will cause trouble.

Sizing, Painting, Staining or Tinting Celotex:

Sizing: To secure maximum coverage, when oil paints are used, the surface of Celotex must be sized or primed.

When water paints or stains are used, no sizing or priming is necessary.

"A" Glue Sizing: Dissolve two pound of shell or chip glue in three gallons of boiling water and apply warm. Use no size that has been mixed over eight hours. Apply swiftly and evenly. Coverage, approximately 250 square feet to the gallon of this mixture. When glue size is dry any oil paint or stain may be applied, or the board may first be tinted with a water stain (see specification below) then sized and oil paint applied with stencils.

"B" Oil and Silax Size: Dissolve 8 pound of silax in one gallon of boiled linseed oil (cheaper oils may be used but results are not as good). Mix thoroughly and apply; coverage, approximately 225 square feet to the gallon of this mixture. This size is more expensive but produces a very satisfactory surface and takes the place of one coat of oil paint.

"C" Casein Size: All casein sizes are produced with manufactures specifications for mixing and applying. The average coverage is approximately 275 square feet per gallon of mixture. They are mixed with water. No casein size should be used that contains free lime. In markets where these sizes are not available The Celotex Company will recommend an appropriate brand.

Oil Paints:

Priming: Instead of sizing, a priming coat containing ⅓ turpentine, ⅓ boiled linseed oil and ⅓ paint may be used. This should be brushed on swiftly and evenly.

Painting: Over a sized or primed surface, any paint may be used or painting effect produced.

Note: The above specifications apply equally to interior or exterior painting so far as the preparation of the walls are concerned.

Oil Stains:

Oil, benzol, alcohol, acid or any other penetrating stains may be applied over glue or casein sizes in the usual manner. Oil and silax size produces a built up white surface similar to one coat of white oil primer.

Water Paints and Stains:

Wood Stains: All commercial stains used for dyeing wood may be used over Celotex without sizing. These are mixed in hot water and applied cold in accordance with manufacturer's specifications. The coverage is large, approximately 500 square feet to the gallon but the quantity of dye depends upon the strength of tint desired. These tints should be applied swiftly and evenly with a large brush.

Paste Water Stains: Paste water stains are dry colors which are mixed with paste specially prepared by manufacturers and may be applied without the use of sizes, as the paste contains the necessary glue. They are mixed in accordance with manufacturer's specifications. Any color or tint may be produced. Due to the slow drying qualities of this material, other color tints may be mottled into them, producing tiffany or antique effects in one painting operation. Any stencil effect can be applied on this background in Fresco or Japan colors.

Kalsomine Tints: Kalsomine tints may be applied over either sized or unsized surfaces. When sizing is not used, add small amount of glue to mixture. Mix and apply in accordance with manufacturer's specifications. Any kalsomine surface maybe stenciled in Fresco or Japan colors.

Celotex as Interior Wall Finish for Application of Wallpaper, Sanitas or Canvas.

For Use In Dwellings of Moderate Cost.

Material: Celotex Standard Building Board shall be used as a base for this application, applied in accordance with standard specifications, with the following additions and precautions which govern this application:

Framing: Before applying Celotex, the framing must be carefully checked. If studs require straightening, saw the concave side of the bowed studs about two inches, and drive in a wooden wedge until stud straightens.

Nailing: Nail all surfaces of the board except the edges, in accordance with standard specifications. On all outside edges space nails 2 in. on centers and drive in until the heads are 1/16 in. to ⅛ in. below the surface of the board.

Sandpapering: Because of the close nailing and the fact that nails are driven in so far, there is a depression and roughness at joint. Wrap a piece of coarse sand paper around a piece of 2 in. x 4 in., about 12 in. long, and sand with a circular motion, across the joint. Do not sand the depression out, or to the nail heads, but just enough to smooth off rough or raised surface, caused by nailing. Bring the surface of the two Celotex boards, except for depression at nails, to an even plane. Check surface of Celotex boards at intermediate nailing; if raised, sand slightly in same way. Also sand well in joints between nails to keep edges from rising.

Sizing: Celotex must be sized before applying paper. Dissolve one pound of shell or chip glue in three gallons of boiling water and apply warm. Apply within eight hours of time of mixing. Apply in a heavy, uniform coat.

Muslin Joints: On all joints and angles (external and internal) paste on with wallpaper paste, a cheese cloth or thin muslin strip 5 in. wide. Paste the strip well before applying, and brush away from joint until it is stretched tight. This will bridge the depression made by nailing. Strip should not touch nail heads.

Lining Paper: Apply lining paper. Any smooth paper will do for this operation, but on ceilings, where light colored, unfigured paper is to be used, the lining paper should be of sufficient weight to obscure muslin strips. Old patterns or discolored stock may be used just to give smooth, easy working surface for finish paper. Apply lining paper with a thick coat of regular wallpaper paste. It is suggested the lining paper be run opposite to finish paper to avoid getting two joints at the same place. This, however, is not absolutely necessary. The same care in hanging is not needed as in finish paper, the important thing being not to use lap joints. This lining paper when dry bridges over depressions made by nail heads not touching them. It also strengthens muslin joints.

Finish Paper: Any desired paper, Sanitas or canvas is then applied the same as over any wall surface.

Decorative Celotex.

Selected Standard Building Board used for interior wall finish and decorated with stains, paints and other forms of interior wall treatment.

Address company for literature and information. See Specifications and Details for Celotex Standard Building Board for methods of erecting decorative Celotex.

Celotex As Roof Insulation.

Material: The top of the house shall be insulated with Celotex Standard Building Board applied to the wood framing in accordance with standard specifications (except where applied to wood deck, specification for which appears in this Section). The place of application and the number of thicknesses shall be as directed for the particular case.

Applied Over Roof Rafters: Furring and Roofing: For wood shingles, slate, tile or any other brand of rigid roofing, apply 2 in. shingle lath directly over the Celotex, nailing through into the rafters; shingle lath shall be spaced to fit the particular roofing specified.

For shingles too flexible to bridge the lath, or for roll or sheet roofing first apply wood sheathing board. Then apply Celotex, butting the joints. Over this apply roofing, nailing through to the sheathing.

In summer cottages where Celotex is used as interior finish in connection with open rafters, Celotex may first be applied to rafters, and sheathing, shingle strips or spaced sheathing applied over it to receive various types of roofing.

As Attic Lining and Insulation. Applied to the Under Side of Roof Rafters: Apply Celotex Standard Building Board to the underside of roof rafters, extended to a tight joining with the wall insulation on all sides. In houses already constructed where there is no side wall insulation, bring Celotex in close contact with side wall sheathing, carefully filling all spaces where air leakage may occur around cornices. If frame is not spaced properly it shall be furred with 1 in. x 2 in. strips spaced 16 in. on centers.

Applied to the Upper Side of Attic Joists: Apply Celotex Standard Building Board on top of attic floor joists, extending it to a tight joining with side wall insulation. In old houses where there is no side wall insulation, use method specified in previous paragraph. Lay wood floor over the Celotex in such portions of attic as are to be used for storage or living rooms.

NOTE: Celotex used with plaster applied direct on second floor ceiling, also operates as roof insulation.

NOTE: If attic is to be used as a bedroom or other living room—see specifications for Celotex with plaster applied direct and Interior Finish.

Applied Over Wood Deck: (For Commercial and Industrial Buildings. See also our Specifications for Celotex Industrial Board.)

Preparation of Deck: Roof deck shall be made of seasoned dressed and matched lumber, properly nailed, all nails driven flush with boards. The deck shall be laid to slope and pitched to drain, as shown on plans and specifications. Deck shall be swept clean before laying Celotex insulation. Nail cant strips around walls and where required after Celotex is in place.

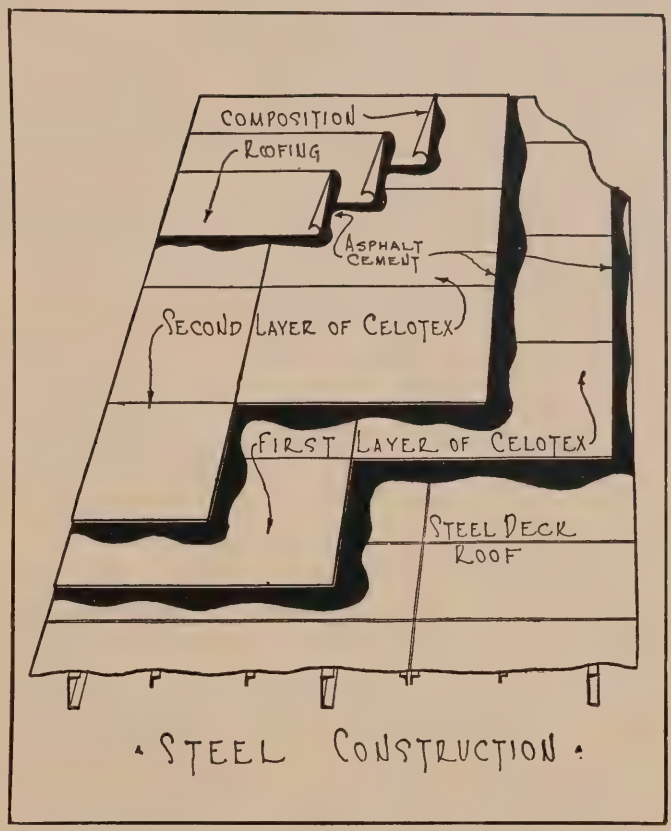
Application: The Celotex shall be nailed to the wood deck, using 1½ in. standard roofing nails with ⅜ in. head, and spacing nails 1 ft. on centers. Nails in the body of the board shall be staggered. Nails shall be driven until the nail heads are ⅛ in. to 1/16 in. below the surface of the Celotex. Where more than one layer of Celotex is applied use nails of sufficient length to penetrate wood deck.

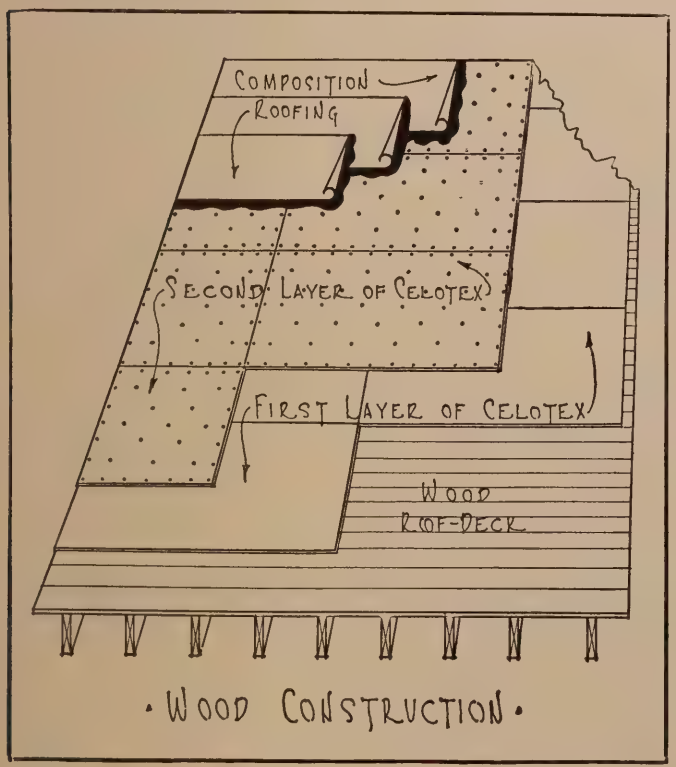
Transverse joints and joints of successive layers shall be broken.

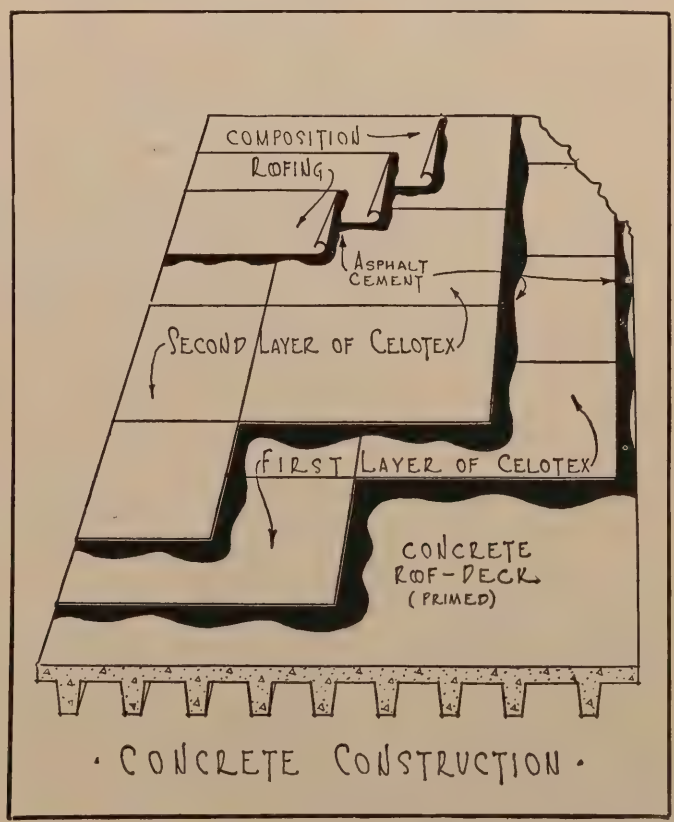
Be careful to fit tight joints with walls and around all roof projections, but DO NOT force into place.

Apply tin or other form of flat roof in accordance with Roofing Specifications.

Additional layers of Celotex used for roof insulation shall be applied in the manner above specified.







THE CELOTEX COMPANY	CELOTEX INDUSTRIAL BOARD ROOF INSULATION DETAILS	SHEET NO. 3 NOT TO SCALE

Balsam-Wool

Heat Insulation and Sound Deadener

Made by

WOOD CONVERSION COMPANY

Cloquet, Minnesota

DISTRICT OFFICES

St. Paul, Minn., 1955 University Avenue Chicago, Ill., 310 South Michigan Avenue

Distributed Through Retail Lumber Dealers Exclusively

Products

Balsam-Wool Standard Building Insulation for preventing heat losses through walls, roofs, floors and ceilings; for insulating refrigerator rooms, cars and boxes; and for the sound deadening of floors and walls.

Balsam-Wool Sound Absorbent for acoustical treatments.



Standard Package Contains 250 Sq. Ft. Weight, 50 Lbs.

Balsam-Wool Standard Building Insulation

A Wood Product — Balsam-Wool is made from pure wood fibers in fleecy wool form, permanently matted together and treated chemically to resist fire. For building purposes it is furnished ½ in. thick, between two sheets of asphalt-coated tough kraft paper.

Highly Efficient as a Heat Insulator—In Balsam-Wool the natural heat resistance of the wood is multiplied many times by a rearrangement of the cellular wood fibers into a "wool" form which retards the circulation of air. The still air space in Balsam-Wool is approximately 95%, while its density in pounds per cubic foot is only 3.80. The fact that the paper covers of Balsam-Wool are *not stitched* or punctured in any way adds further to its heat, moisture and wind resisting qualities. Standard specifications, and test results showing the efficiency of Balsam-Wool compared with other building insulations are given in this article.

An Effective Sound Deadener—The ability of the wool to absorb sound, and the tendency of the paper covering to reflect sound waves, account for the remarkable efficiency of Balsam-Wool as a sound deadener. Specifications and test results will be furnished on request.



A piece of Balsam-Wool with the paper removed from one side. Note the resemblance in appearance to sheep's wool. Actual tests on the two materials show an equally striking similarity in insulating efficiency. In Balsam-Wool you have practically the equivalent of sheep's wool in insulating efficiency at about one-fifth the cost. Balsam-Wool is so efficient because it is 95% still air space—that accounts, too, for its light weight.

Waterproof—The film of asphalt which lines the paper coverings protects the wool from moisture, and at the same time keeps dampness out of the building.

Fire Resistant — The wool is chemically treated against fire.

It will char while exposed to flame, but will not smolder or burn after the flame is removed. Balsam-Wool in itself will not support combustion.

Verminproof and Sanitary—Balsam-Wool contains no animal matter. It does not attract or harbor rats, mice or vermin. It is clean, odorless and sanitary.

Permanent—The wool cannot sift or settle because each fiber is coated with an adhesive which cements it to adjoining fibers. The asphalt coating provides a permanent bond between wool and paper. Balsam-Wool is as permanent as the walls which hold it.

Uniform in Quality—During the process of manufacture Balsam-Wool is under constant laboratory supervision for uniformity and thermal conductivity.

Low Cost of Installation — Three standard widths meet all average construction requirements. Thus, the carpenter cuts only to length. Being flexible, Balsam-Wool can be fitted easily into corners and around projections without waste of material. Being light and easily installed, it speeds up the work and keeps down installation costs.

Widths and Thickness —The standard widths are 17, 25 and 32 in. The standard thickness is ½ in., although 1-in. thickness can be furnished on special order. Balsam-Wool is rolled, wrapped, and sealed in standard

packages containing 250 sq. ft. and weighing 50 lbs.

How Distributed—Balsam-Wool Standard Building Insulation is distributed through retail lumber dealers. Stocks are carried by dealers in all sections, and any retail lumber dealer can promptly obtain a supply.

Balsam-Wool Sound Absorbent

For use in acoustical treatments, where sound *absorption* rather than sound insulation is the important factor, Balsam-Wool is furnished in a special form. Complete information on Balsam-Wool Sound Absorbent will be furnished on request.

A Weyerhaeuser Product

Balsam-Wool bears the name of an organization which for more than 65 years has been known for the high standard of quality maintained in all its products. On every roll of genuine Balsam-Wool will be found the Weyerhaeuser Forest Products trade-mark, the maker's pledge of personal responsibility.

Heat Insulation for Buildings

Practical Insulation Tests—In the effort to obtain practical insulating data for architects, a series of tests was recently conducted for Wood Conversion Company by the C. F. Burgess Laboratories of Madison, Wisconsin.

Made on Actual Wall and Roof Sections—The roof and wall sections tested were of standard construction, and included types most commonly encountered in residential work.

First, each section was tested for its thermal conductivity without insulation. Commercial insulating materials, purchased from dealers' stocks, were then applied in turn, so that the series of tests would show (1) the absolute heat loss through each type of wall or roof, insulated and uninsulated, and (2) the relative efficiency of the different insulators *under actual service conditions.*

Standard heat transmission test methods were employed. Details of these will be furnished on request.

Balsam-Wool the Most Efficient—Results of these tests show a wide difference in the efficiency of the eight insulators under trial. As might be expected, their relative standing varies somewhat in the case of the different wall and roof constructions to which they were applied, but in every case the heat loss through Balsam-Wool was shown to be the lowest.

General Conclusions—Test results show that the heat loss through the roof is relatively greater than through the walls. They also show that the amount of heat loss in either case is largely dependent on the building materials employed.

The percentage of saving due to insulation is highest in the case of those walls and roofs which showed the greatest amount of heat loss when uninsulated. However, the results show that there is a large preventable waste of heat through uninsulated walls and roofs of *every* type.

The Economies of Insulation—In the light of these tests and the actual results obtained in insulated buildings, insulation must be recognized as an important measure of fuel conservation.

Thousands of insulated houses throughout the country are burning from one-fourth to one-third less coal than uninsulated houses of the same size. Moreover, heating engineers are suggesting a reduction of as much as 20% in boiler capacity and radiation when proper insulation is specified.

These economic considerations, together with summer and winter comfort and the protection against sudden temperature changes, explain the popularity and greater resale value of the insulated house.



This photograph illustrates vividly the heat loss through the roof of the uninsulated house and suggests the need for insulation. It was too cold outdoors when this photograph was taken for the snow to melt off the roof of the garage which is not heated. The heat loss from the house, however, is sufficient to melt all the snow off the roof with the exception of a strip over the eaves where the heat coming through the roof cannot reach it.

Thermal Conductivities of Heat Insulators Based on Tests Made by the C. F. Burgess Laboratories in 1924

Insulating Material Used	Thickness of sample tested (in.)	Thermal Conductivity B T U per square ft. per 1°F. temp. drop per 1-in. thickness per hr.	Thermal Conductivity B T U per square ft. per 1°F. temp. drop per 1-in. thickness per 24 hrs.	Density in lbs. per cu. t.
Balsam-Wool	**.60**	**.249**	**5.976**	**3.80**
*A	.35	.255	6.120	5.45
*B	.38	.270	6.480	14.00
*C	.50	.279	6.696	15.90
*D	.40	.309	7.416	5.07
*E	.43	.317	7.608	15.80
*F	.67	.318	7.632	15.90

*Insulating materials in competition with Balsam-Wool.

Efficiency of Various Sound Insulators in Floated Floor Type of Construction

Insulation	Thickness	Percent of Sound Stopped Due to Insulation	Percent of Sound Transmitted
Balsam-Wool	½″	**38**	**62**
*G	½″	36.5	63.5
*F	½″	34.4	65.6
*B	½″	26.	74.
*C	½″	24.7	75.3
*A	2 ply	20.4	79.6
*D	½″	18.1	81.9
*E	½″	4.4	95.6

*Insulating materials in competition with Balsam-Wool.

Standard Specifications for Heat Insulation of Buildings with Balsam-Wool

Materials

Heat insulation shall be standard ½-in. thick Balsam-Wool, manufactured by the Wood Conversion Company, Cloquet, Minnesota. Widths shall be as specified hereinafter. (Stock widths are 17, 25, and 32 in.)

General

Continuity of insulation shall be maintained. Where floors, ceilings or roofs are insulated, as well as outside walls, insulate walls thoroughly between joists and rafter ends.

Throughout, all joints shall be made airtight, especially at door and window openings.

Use full length strips of insulation. End joints, where necessary, shall be butted and covered with lath, nailed through insulation to boarding or header.

Insulation strips shall in all cases run in the same direction as studding, joists and rafters.



This photograph shows Balsam-Wool being applied in the walls of a house. The 17-in. width fits snugly between the studding. The material flanges automatically as it is applied and these flanges are held tight against the studding and plates by means of lath or nailing strips. Every crack and crevice is thus tightly sealed.

Frame Outside Wall Insulation

(Wood siding, stucco or brick veneer finish. Studs set on 16-in. centers.)

Method No. 1 (17-in. Width)—Insulate with 17-in. width Balsam-Wool applied vertically between studding with back of insulation against face of sheathing. The flanges or turnouts shall be continuously fastened by means of laths or strips nailed securely through insulation to the studding on the sides and to soles, plates or headers at the top and bottom.

Note: Where studding is set on 24-in. centers use 25-in. width Balsam-Wool.

Method No. 2 (32-in. width)—Insulate with 32-in. width Balsam-Wool applied vertically on inside face of studding, edges butted together on every other stud. Fur over insulation with 1 x 2-in. furring strips on each stud to receive lath and plaster.

Note: This method requires special width door and window frames.

Where heating or plumbing pipes are installed in space between studs of outside walls, insulate between studs as in Method No. 1, in addition to insulation as above.

Masonry Outside Wall Insulation

(Stone, brick, hollow tile or concrete block)

Method No. 1 (32-in. Width)—Fur the wall with 1 x 2-in. furring strips on 16-in. centers, shimmed plumb and true. Insulate with 32-in. width Balsam-Wool applied vertically on inside of furring, edges butted together on every other strip. Fur over insulation with 1 x 2-in. furring strips on each wall-furring strip to receive lath and plaster.

Method No. 2—(17-in. Width)—Fur the wall with 2 x 2-in. furring strips, on 16-in. centers, shimmed plumb and true. Insulate with 17-in. width Balsam-Wool, applied vertically between furring strips with back of insulation against inside face of wall. The flanges or turnouts shall be continuously fastened by means of laths or strips nailed securely to the furring on the sides and to soles, plates or headers at the top and bottom.

Roof Insulation

(Rafters set on 16-in. centers)

Method No. 1 (17-in. Width)—Insulate with 17-in. Balsam-Wool applied between the rafters with back of insulation against inside face of roof boarding. The flanges or turnouts shall be continuously fastened by means of laths or strips nailed securely through insulation to the sides of rafters, plates, ridges, etc.

Note: Where rafters are set on 24-in. centers use 25-in. width Balsam-Wool.

Method No. 2 (32-in. Width)—Insulate with 32-in. width Balsam-Wool applied on the inside face of rafters, edges butted together on every other rafter. Fur over insulation with 1 x 2-in. furring strips on each rafter to receive lath and plaster. (Use laths or strips if space under rafters is unplastered.)

Ceiling Insulation

(Joists set on 16-in. centers)

(Use instead of roof insulation for second floor ceilings where attic above is not to be used for living quarters; also for basement ceilings where space is unheated; and for porch ceilings where space above is used for living quarters, as in second floor extensions, etc. Insulation is also recommended for first floor ceilings under bedrooms that will be cold at night, and for ceilings of first floor bedrooms where space above is heated at night.)

Method No. 1 (17-in. Width)—Insulate with 17-in. width Balsam-Wool applied between joists with back of insulation against underside of rough flooring. The flanges or turnouts shall be continuously fastened by means of laths or strips nailed securely through insulation to the sides of joists, plates, headers, etc.

Note: Where joists are set on 24-in. centers use 25-in. width Balsam-Wool.

Method No. 2 (32-in. Width)—Insulate with 32-in. width Balsam-Wool applied on the bottom of joists, edges butted together on every other joist. Fur over insulation with 1 x2-in. furring strips on each joist to receive lath and plaster or ceiling.



No matter how hot the sun, this room will always be comfortable. In this story - and - a - half house Balsam - Wool is applied not only between the studs but also between the rafters and under the ceiling joists. As a rule it is impossible to live comfortably in such rooms in an uninsulated house in the summertime. Balsam - Wool makes them as cool as the rooms below.

Floor Insulation

(Over partially excavated or cold basement areas. Joists set on 16-in. centers.)

Method No. 1 (32-in. Width)—Insulate with 32-in. width Balsam-Wool applied over subfloor, edges butted together over every other joist. Fur over insulation with 1 x 2-in. furring strips secured over each joist to receive finish floor.

Note: Where entire building floor area is not insulated as above, set floor joists of insulated area sufficiently below normal joist level to compensate for thickness of insulation and stripping.

Method No. 2 (17-in. Width)—(Use where headroom below joists is sufficient for working space and is accessible.)

Insulate with 17-in. width Balsam-Wool applied between joists as specified in Method No. 1 for Ceiling Insulation.

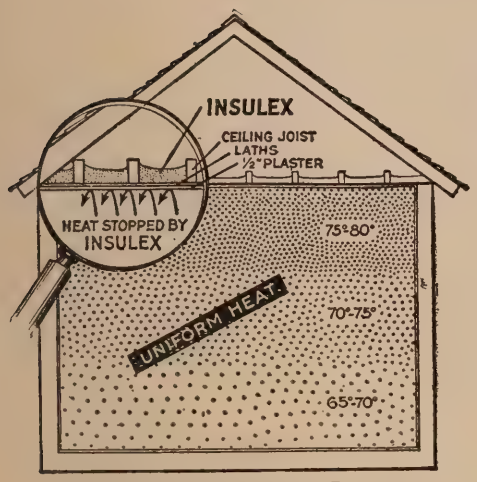
Insulex—The Gypsum Insulation

Manufactured and exclusively controlled by

UNIVERSAL GYPSUM COMPANY

Or Its Licensee

Conway Building, Chicago



House Insulated With Insulex

Reduces heat losses 52% to 77% by actual tests

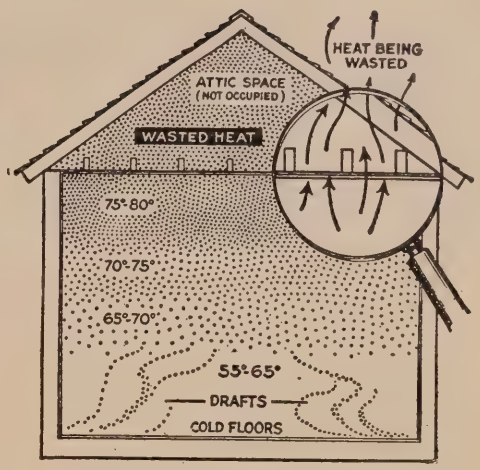
INSULEX
GYPSUM INSULATION

TRADE MARK

(See page 126 for Gypsolite Wallboard.)

Insulex

Insulex is cellular gypsum, a fire, vermin and decay-proof insulation and sound deadener, employed on roofs, floors, sidewalls and ceilings of residences, commercial and industrial buildings and for industrial uses such as pipe and boiler covering, cold storage work, etc. Insulex is used as a lightweight fill for reducing dead load in structures.



Uninsulated House

The heat passes through the ceilings, into the attic, and out through the roof.

Main Uses

Insulation against heat and cold. Sound deadener. Light weight fill for floors and roofs. Fireproofing. Industrial uses such as insulating coke ovens, bake ovens, enameling ovens, dryers, roofs of clay plants, lumber kilns, boilers, hot water tanks, high pressure steam pipes, pipe chases, outside water towers, underground heating mains, refrigerators, cold storage and ice plants, fur storage vaults, cigar humidors, cooling rooms for vegetables, bakeries, constant temperature rooms, etc., fireproofing built in vaults, light structural steel and other uses suggested by those enumerated above.

Description

Insulex is cellular gypsum and is used for sound deadening and insulation against heat and cold. It is light in weight and its structure consists of millions of tiny dead air cells, each encased in a mineral wall of gypsum, which in itself, is of low conductivity. It comes in powdered form, put up in 80 lb. sacks. Each sack is marked with the trade-name "Insulex the Gypsum insulation" and full directions are given on each sack for mixing and application. Insulex, when mixed with water, expands 3 to 7 times, depending on kind and for purpose used. It sets in 20 to 30 minutes. Tiny confined dead air cells are formed by millions, creating a remarkable resistance to heat, cold and sound. Any desired thickness or shape can be installed.

Insulex is supplied to make different finished weights per cubic foot—12, 18, 24 and 30 lb. per cu. ft. being the usual standards. The numbers on the sack indicate the number of pounds of that kind of Insulex powder required to make 1 cu. ft. of Insulex in place.



Note the millions of tiny air-cells visible to the eye, making the ideal insulation condition.

Advantages

Insulex is fire-, vermin- and decay-proof and does not disintegrate in any way with time or moisture. Composed entirely of mineral matter, it cannot decay; being of a refractory nature it cannot burn. Insulex is not of vegetable or animal origin, consequently will not harbor or attract vermin or rodents. These advantages, together with its ease and low cost of application, make Insulex attractive. Insulex does not require any skilled labor or expensive equipment to apply. It bonds perfectly with concrete and other structural materials. It can be installed in old as well as new buildings.

When poured in place, Insulex expands and flows easily into the smallest crevices and cracks and it clings tightly to all joists and studdings, thus effectively sealing the structure from heat losses through uninsulated cracks.

Summer Comfort and Winter Savings

These two desirable qualities in any home can best be had by Insulex. Homes insulated with Insulex are warmest in winter because there is a more uniform heating of rooms. Rooms heat quicker and retain the heat longer. Drafts are eliminated and floors made warmer. In homes insulated with Insulex, hard to heat rooms are not known. In summer Insulex makes your home more comfortable because it excludes outside summer heat, thus improving health and living conditions. Insulex can be easily and economically applied to old houses. The cost of its application in an old house will be saved in fuel within two years. In new houses, the saving it effects in cost of construction and saving in reduced boiler capacity and radiation, will frequently offset the original cost of installing Insulex.

Further Information

We have standard drawings and specifications for the use of Insulex printed in loose-leaf pamphlet form suitable for filing or reference. We will gladly furnish these upon application. We also have well equipped engineering staffs who will be glad to go into the solution of your problem if it involves insulation or sound deadening.

For further details and literature, write to: **UNIVERSAL GYPSUM COMPANY** Conway Building, CHICAGO

UNITED STATES MINERAL WOOL — A NON-COMBUSTIBLE Insulator and Sound Deadener

Manufactured by

UNITED STATES MINERAL WOOL COMPANY

280 Madison Ave., New York—Factory: Stanhope, N. J.



Illustration Cut showing Mineral Wool in Walls for insulation and in floors for deadening.

Products

The United States Mineral Wool Company is the pioneer manufacturer of — MINERAL WOOL. This is made by converting melted scoria into a fibrous state which holds in suspension from 92 to 96 percent of air—more than any other non-combustible material.

Principal Uses

Mineral Wool is used for lining roofs, walls, ceilings, floors, etc. It is low in price and will repay its original cost the first few winters through the saving it effects in fuel consumption. And there is a perpetual saving in heating expense through being able to maintain an even room temperature while using less fuel. It is easily and quickly applied by common labor.

Damp-proof—Sound-proof Vermin-proof—Fire-resisting

Mineral Wool keeps the house warm in winter and cool in summer because it is a non-conductor. It thoroughly deadens sound, and keeps out dampness. It is an absolute resistant of fire.

How to Install

To properly insulate a house, the space between studding from sill to plate, and also rafters from plate to ridge of house should be filled with a non-conducting material—Mineral Wool being unsurpassed for this purpose.

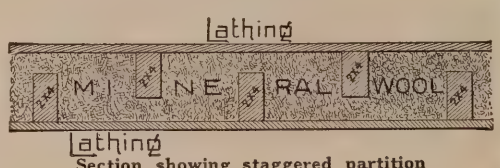
For filling walls between studding the Mineral Wool should be packed in by hand at the time the lathing is being done. First lath one side of any given space completely. Then begin lathing the other side, working from the floor up. When lathing has reached height of two or three feet fill in with Mineral Wool to top of lathing, then a few feet more of lath, then more Mineral Wool until the top is reached.

Pack the Wool in closely to fill all space compactly. The pressure of the Mineral Wool behind the lath does not prevent the plaster keying.

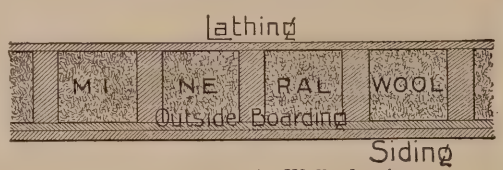
How to Estimate Requirements

The grade of Mineral Wool invariably used in building construction weighs approximately one pound per square foot, for each inch of thickness; or twelve pounds per cubic foot, when packed under ordinary hand pressure.

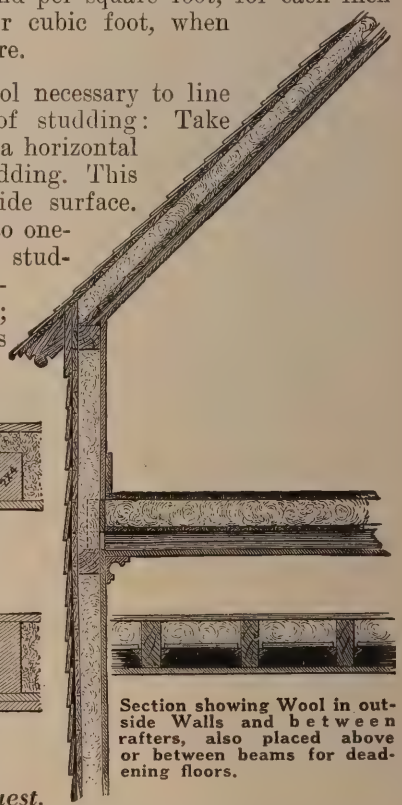
To find quantity of Mineral Wool necessary to line outside walls the full thickness of studding: Take entire distance around building on a horizontal line and multiply by height of studding. This will give the square feet of outside surface. Deduct, ordinarily from one-third to one-half for doors, windows, chimneys, studding, bracing, etc. Multiply the remainder by thickness of studding; the result will be number of pounds of Mineral Wool required.



Section showing staggered partition for sound proofing



Section of Outside Wall showing Wool between studding.



Section showing Wool in outside Walls and between rafters, also placed above or between beams for deadening floors.

Samples and Descriptive Literature on Request.

For further details and literature, write to: **UNITED STATES MINERAL WOOL COMPANY** 280 Madison Ave. NEW YORK

Pyrocell—the Fireproof Insulation

Manufactured by the

UNITED STATES GYPSUM COMPANY

205 West Monroe St., Chicago, Illinois

BRANCH OFFICES

New York, N. Y., 17 State St.
Buffalo, N. Y., Ellicott Square Bldg.
Boston, Mass., 100 Bolyston St.
Washington, D. C., 605 Lenox Bldg.
Baltimore, Md., 1008 American Bldg.
Philadelphia, Pa., 415 Otis Bldg.
Pittsburgh, Pa., 917 Bessemer Bldg.
Cleveland, Ohio, 625 Hanna Bldg.
Cincinnati, Ohio, 704 Atlas Bank Bldg.
Detroit, Mich., 1462 Penobscot Bldg.
Milwaukee, Wis., Grove and Oregon Sts.
Minneapolis, Minn., 634 McKnight Bldg.
St. Louis, Mo., 1339 Syndicate Trust Bldg.
Kansas City, Mo., 420 Lathrop Bldg.
Omaha, Neb., 705 Brandeis Theatre Bldg.
Denver, Colo., 603 Denham Bldg.
Los Angeles, Cal., 1105 Edwards & Wildey Bldg.

For Other Products see pages as follows: Stucco, 87; Plasters and Finishes, 97; Wallboard, 125; Sheathing, 127; Textone Wall Decoration, 456.

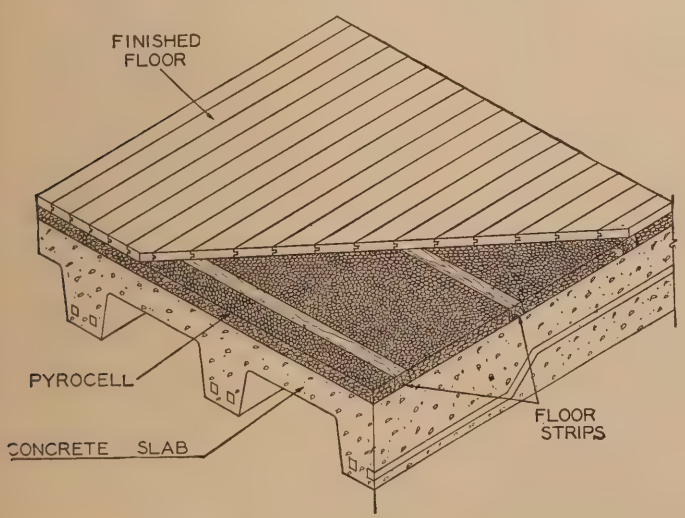
PYROCELL, The Fireproof Insulation:

New Insulating Efficiency: Pyrocell sets a new standard in building insulation because it combines unequalled heat, cold, and sound insulation and fire protection in one material at a cost no greater than that of ordinary insulation.

What Pyrocell Is: Pyrocell is a gypsum material ground to an extremely fine powder. When water is added a gas is formed which expands the mixture to three or four times its original bulk and produces myriads of tiny air cells, each surrounded by a wall of gypsum. As the formula used in the manufacture of Pyrocell assures a uniform release of gas, the air cells are uniform in size and the cell walls are thick and strong.

The Ideal Insulator: Pyrocell offers the highest obtainable insulating efficiency because it combines both of the requirements of the ideal insulating material—dead air cells confined in a material which will not itself readily transmit heat. Gypsum is one of the best natural insulators.

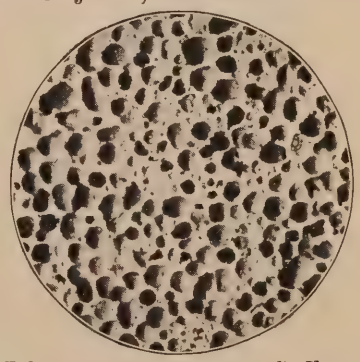
Where To Use Pyrocell: Pyrocell should be used wherever insulation against heat, cold, or sound is desired. Among its many uses the following are important. (1) As insulation and fire protection between wooden studs or joists. (2) As a sound deadener, insulator, and fire protection in floors and partitions. (3) In fireproof construction, as a fill between screeds in floors instead of cinder fill. (4) As a base for Terrazo or tile flooring. (5) As a fill on concrete roof decks. (6) For insulation and fire protection on roofs.



Pyrocell as Floor Fill and Sound Deadener on Concrete Floor Construction

How to Use Pyrocell: Pyrocell is easy and economical to use. It can be mixed and applied by unskilled labor and requires no special equipment. The material is packed in 80-pound paper bags and is ready for use with the addition of water in the approximate proportion of two parts of Pyrocell to one part of water, by bulk. Just sufficient water should be used to give the material an easy flow. The Pyrocell should be added to the water at a single operation and must never be poured into the water slowly. Mix thoroughly and quickly until all lumps disappear and pour the mixture at once. Specifications and directions are printed on each bag.

When properly mixed, Pyrocell can be poured between floor, ceiling, or roof joists; between studs or into insulation spaces in stone, brick, or tile walls. It may also be poured into moulds and laid up like tile between wall studs. Joints can be permanently sealed by wiping with the wet mixture.



Enlarged Section of Pyrocell Showing Air Cells Surrounded by Gypsum

Pyrocell adheres to any surface, makes tight joints, and offers no opportunity for heat leakage or sound transmission. It can be poured into corners that cannot be protected with other types of insulation.

Fireproof, Sound Resisting, and Light in Weight: Pyrocell cannot burn and it acts as an effective fire stop. It reduces sound transmission to a minimum because it combines the natural sound deadening qualities of gypsum with the added effectiveness of dead air cells.

As (No. 24) Terra Cotta Pyrocell weighs only about one-sixth as much as concrete, structural loads can be reduced by using Pyrocell as a fill instead of cinder concrete. Pyrocell is preferable, also, because it can be more easily handled and more quickly applied.

A Weight for Every Purpose: Pyrocell is furnished in four weights to meet the varying requirements of its different uses. For the convenience and protection of users each weight is colored differently.

Write for Specifications: Complete information and specifications for the use of Pyrocell will be sent upon request.

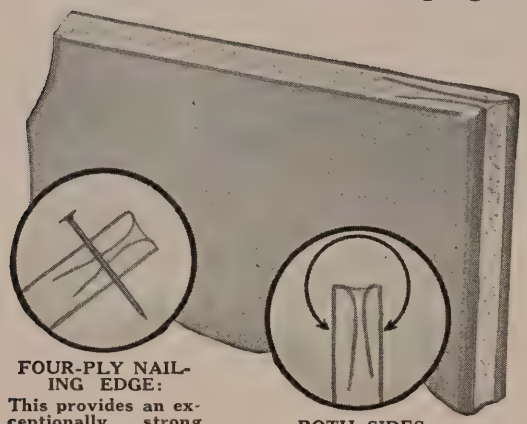
White Rock Fireproof Plaster Wall Board

Made by

THE AMERICAN GYPSUM COMPANY

Plant and General Offices: Port Clinton, Ohio

Non-Shrinking—Non-Warping



FOUR-PLY NAILING EDGE: This provides an exceptionally strong reinforcement for nails and insures smooth, even joints.

BOTH SIDES ALIKE: Saves time in applying (no time lost in turning boards around to find "right" side). Should one side become damaged in handling the other side can be used.

Product:

WHITE ROCK is a fireproof wall board offering numerous possibilities for economical wall and ceiling construction. It is made of white gypsum rock, hence the name White Rock.

Advantages:

Fireproof—Since this wall board is really rock it cannot burn—not only is it non-burnable itself but it prevents the spread of fire. Consequently, White Rock means a real protection for the home or any structure where it is used. Even under severe heat it does not warp or spoil.

Non-Shrinking—Just as rock does not shrink so White Rock cannot shrink because it is rock. Joints (spaces between boards where they join) will never "open up" by the boards pulling apart. These joints are filled with a joint filler—a supply of which accompanies each order for White Rock—and nailing strips are not required.

Non-Warping—The use of White Rock assures walls and ceilings remaining true and even. This wall board cannot warp or "buckle". It retains its original size and shape under even the most adverse conditions encountered in building.

It will pay you to insist upon White Rock Wall Board for your job. It can be easily and quickly applied to brick, plaster, studding or matched lumber and decorated by painting, calcimining, papering or panelling or a combination of these.

Uses:

Covering Walls and Ceilings
Clothes Closets
Finishing Attic Rooms
Fruit Cellars Furnace Rooms
Sleeping Porches
Farm Buildings Garages
Insulation Between Floors
Partitions—Permanent or Temporary
Store, Office and Factory Partitions
Sun Parlors
Outside Sheathing under Clapboards
Underneath Stairs



White Rock Wall Board works up easily into attractive treatments.



For any room in the house White Rock makes substantial fire-safe walls and ceilings.



The building of walls and ceiling is a quick, clean and comparatively simple operation with White Rock.

For further details and literature, write to: **THE AMERICAN GYPSUM CO., PORT CLINTON, OHIO**

How to Apply White Rock Wall Board:

Stack—flat on floor in center of rooms, protecting surfaces. Doors and windows should be in before board is delivered.

Framework—Be sure to space studs 16 inches on centers. See that they are straight and level. Place headers so that all sides and ends of boards can be nailed.

Sawing—Use a common hand saw. Support board close to sawing edge.

Nailing—Use 3-penny countersunk or fine flathead nails, preferably coated or galvanized, driven straight in, heads flush with surface. Be sure to space nails on intermediate supports 6 inches apart on ceilings, 9 inches apart on walls, then at all sides and ends, space nails 3 inches apart and ⅜ inch from edge.

Edges—of White Rock should be ⅛ inch apart. First nail side at joining, then nail to first intermediate stud or joist, then to second intermediate stud or joist, then nail side away from joining, then nail ends.

Ceilings—Erect ceilings first. Tack a strip of wood along the top of studs, ½ inch from ceilings, to hold edge of board. A "T" made of 2x3's will help hold White Rock in place on ceiling while nailing. If cross joints are necessary see that they are broken.

Walls—Apply White Rock full length up and down. Begin at the corners and work to openings. Use a pry to lift the Board flush with the ceilings. Fill spaces above and below windows last, using cut pieces.

Fill—Fill space between edges with the specially prepared White Rock joint filler—this will form a *smooth, unbroken surface.* No nailing strips required.

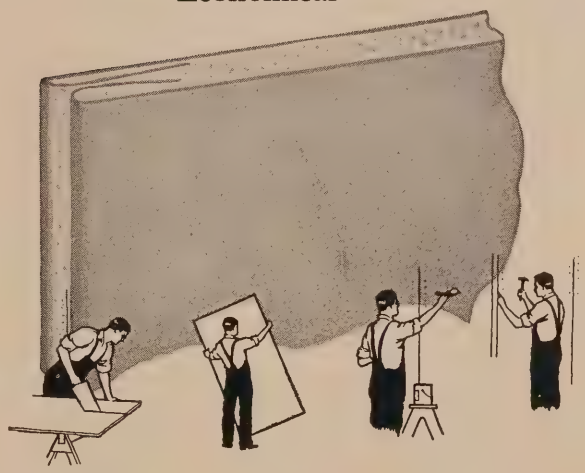
Decorating—Rough Finish, Paint, Calcimine or Wallpaper can be used. With White Rock as a base decorative effects of rare beauty (rough texture finish) can be had For painting and calcimining, White Rock forms a perfectly smooth surface. The contraction of wall paper when drying will not warp this Plaster Wall Board.

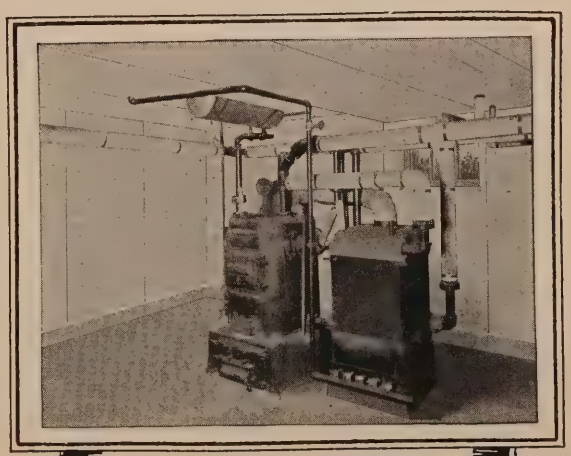
Your Lumber and Building Supply Dealer:

Will furnish you with amount of White Rock needed and tell you how to use it for best results. He can also tell you about special lengths of White Rock made up on request.

White Rock *fireproof* WALL BOARD

Strong—Durable Economical





You can cut out the fire hazard by lining your furnace room with White Rock.



For clean, sanitary, protected fruit rooms —White Rock Wall Board.

A warm, dry, fireproof garage results from simply lining with White Rock.

For further details and literature, write to: **THE AMERICAN GYPSUM CO., PORT CLINTON, OHIO**

WALL MATERIALS

MANUFACTUED BY

The Beaver Products Company, Inc.

THOROLD, ONT — BUFFALO, N. Y. — LONDON, ENG.

SALES OFFICES

Atlanta — New York — Chicago — Minneapolis — Buffalo

MILLS

Buffalo, N. Y. — Gypsum, Ohio — Fort Dodge, Ia. — Agatite, Tex.
Thorold, Ont. — Grand Rapids, Mich. — Blue Rapids, Kan. — Akron, N. Y.

PRODUCTS—for WALLS

Beaver Fibre Wall Board, Beaver Fibre Tile Board, Bestwall Plaster Wall Board, Beaver Gypsum Lath, Beaver American Plasters, Beaver Gypsum Block, Architectural and Industrial Paints and Varnishes.

For Beaver Vulcanite Roofing products see pages 142-43.

BESTWALL

Beaver "Bestwall" the superior plaster wall board, is easily and quickly applied and permanent. It is used in frame buildings where an absolutely rigid, fireproof material is required; where economy of time and labor is essential and at the same time, a durable, perfectly decorated result must be secured.

Bestwall is made from super-strength, correctly set and rightly mixed, high quality gypsum rock plaster impregnated with a small amount of wood fibre for binding purposes. Its surfacing, a tough durable fibre casing gives added strength and allows of finest decoration—an exclusive advantage of Beaver "Bestwall." Its manufacture under uniformly and ideal conditions and by processes perfected through careful experimentation and long experience, makes Beaver "Bestwall" the quality plaster wall board of today.



Its Application.

Beaver "Bestwall" is merely nailed to studs and joists, the joints filled with plaster and painted or papered. It can easily be cut by scoring and breaking, or by sawing. It is nailed on all edges, headers being provided in the framing for the ends, with 3rd flat head nails placed at intervals of about 6 in. It is nailed to the center supports about every 12 inches. Plaster for filling is furnished and this is quickly used to fill joints and holes over countersunk center nails. Painting or papering is next and then the job is done, without fear of failure and with no muss or litter.

Superior Advantages.

Beaver "Bestwall" gives a plaster wall of pre-set rock like gypsum, always mixed right under proper conditions and supervision; saves time in delay; will not crack or fall and once up it is a durable and permanent construction.

Fireproof: "Bestwall" can't burn and provides excellent fire protection to the rest of the house. It has withstood the most severe tests of the National Board of Fire Underwriters and it is approved for use within the fire limits of the larger cities.

Sound Retarder and Heat Insulator: It is an exceptional retarder of sound, a very good insulator against heat or cold, and is also proof against moisture and dampness.

Permanency: Severe blows will not break it—jars will not loosen it. It will never warp, chip, crack or crumble and once up—its up to stay.

Decorative Surface: Smoothness, evenness and texture of the special fibre surfacing influences the degree of beauty possible and the types of decoration adaptable.

Convenient Size Panels:

Bestwall comes in panels ready for immediate use, slightly less than 4 feet wide and in stock lengths of 6, 7, 8½, 9 and 10 feet. It is a full ⅜ of an inch thick and supplied in either beveled or square edge.



For further details and literature, write to: THE BEAVER PRODUCTS COMPANY, INC., Buffalo, New York, or Nearest Branch

BEAVER PRODUCTS — *for* WALLS

BESTWALL—Continued.

Test and Compare.

Get a piece of "Bestwall" from your dealer. Dig into its gypsum plaster core with a knife and see how rock-like it is. Break it if you can and note its great strength. Try to tear off its fibre surfacing. Soak it in water and note the freedom from swelling or other distortion. See how nicely it takes paint or paper. Turn a blow torch on it—it will not burn. Nail it down and test its nailing strength. Bestwall is sold on its merit—its superior quality—and it costs no more—give it every test—and compare.

Beaver Fibre Wall Board.

The first and original wall board, the longest and most extensively used and accepted for the last seventeen years as *the* quality fibre wall board. Built from long tough fibres into large, light, durable panels that are easy to work. For walls and ceilings in new frame construction or for the many kinds of remodeling in office, store or factory, Beaver Wall Board is the economical material to use. It makes a good sheathing, an efficient sound deadener and a handy form of lumber for the manufacture of many hundreds of articles.

Application.

Convenient size panels, 32 or 48 inches wide and in length of from 6 to 16 feet, in two weights. Standard (⅜ in. thick), Jumbo (¼ in. thick), applied directly to studs and joists, to furring over masonry or over old wall materials. All edges are nailed, by providing headers, with 3d flat head nails at intervals of 6 in., and centers with finishing nails at intervals of 12 in. Center nails are countersunk and filled. After painting, the panel intersections are covered with decorative moulding and strips. Great variety of panel design is possible through planning.

LOOK FOR THE RED BEAVER BORDER



ON EVERY PANEL OF THE GENUINE

Beaver Fibre Tile Board.



EASILY APPLIED

A durable inexpensive tiling for bathrooms, kitchens, restaurants, restrooms and other places where a glistening tile wainscot is desired. Comes in panels 48 inches wide and standard wall board lengths. Nailed horizontally across the studs or over old wall materials, painted and enameled, it is equal in appearance to the most expensive tile, and it will never crack or fall. The finish mouldings, along the top and at the corners complete the job and it is quickly done.

Beaver American Gypsum Products



DISTINCTIVE PLASTER IN DISTINCTIVE BAGS

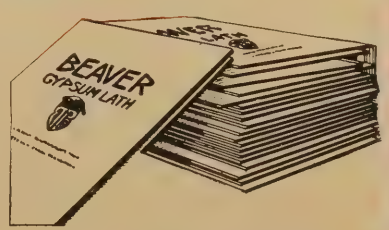
Plasters

For any type of building; for plastering over any approved plaster backing; for procuring any effect of finish; for all climatic conditions; for any local preference as to working characteristics; there's a Beaver American Plaster whose superior fitness has been proved by long experience. Every brand is a brand of established reputation — for twenty-five years the confidence of careful builders has been enjoyed. Beaver American Plasters may be broadly divided into two classifications: (1) Plaster for Base Coats; (2) Plasters for Finish Coats.

Beaver American base coat plasters are provided, hair fibred, unfibred, and wood fibred, unsanded or sanded ready for mixing.

Beaver American Plasters for finish coats are provided in Finishing and Guaging plasters and Moulding and Casting plasters.

Beaver Gypsum Lath



FOR BETTER PLASTERING

Beaver Gypsum Lath (Plaster Board) is composed of gypsum rock plaster, reinforced with shredded wood fibre binder and by tough fibre surfacings front and back. It is applied much faster than other forms of lath. It braces the framing better, bonds with gypsum plaster more securely, saves time and material in plastering and will not swell, buckle, rust or burn. The finished wall is better insulator against heat, cold and sound and has twice the thickness of durable, rock-like material usually secured with other lathing. It is made in slabs 24 in. x 32 in., 32 in. x 36 in., 32 in. x 48 in.; either ¼ in. or ⅜ in. thick.

Beaver Gypsum Block

This gypsum product has established a high reputation in the building world as a modern non-bearing partition and furring material for fireproof buildings. It is a non-conductor of heat, cold and sound, is light in weight, strong and tough, and erects economically without waste. Made in four sizes and weights; 2 in. solid weighing 24 lbs.; 3 in. hollow weight 23 lbs.; 4 in. hollow, weight 30 lbs.; 6 in. hollow, weight 47 lbs.

"HOMASOTE"—An Interwoven Fibre Board

Sold By

THE PANTASOTE COMPANY, Inc.

250 Park Avenue, New York City

HOMASOTE

TRADE MARK

Panels and Sidings

What Homasote is:

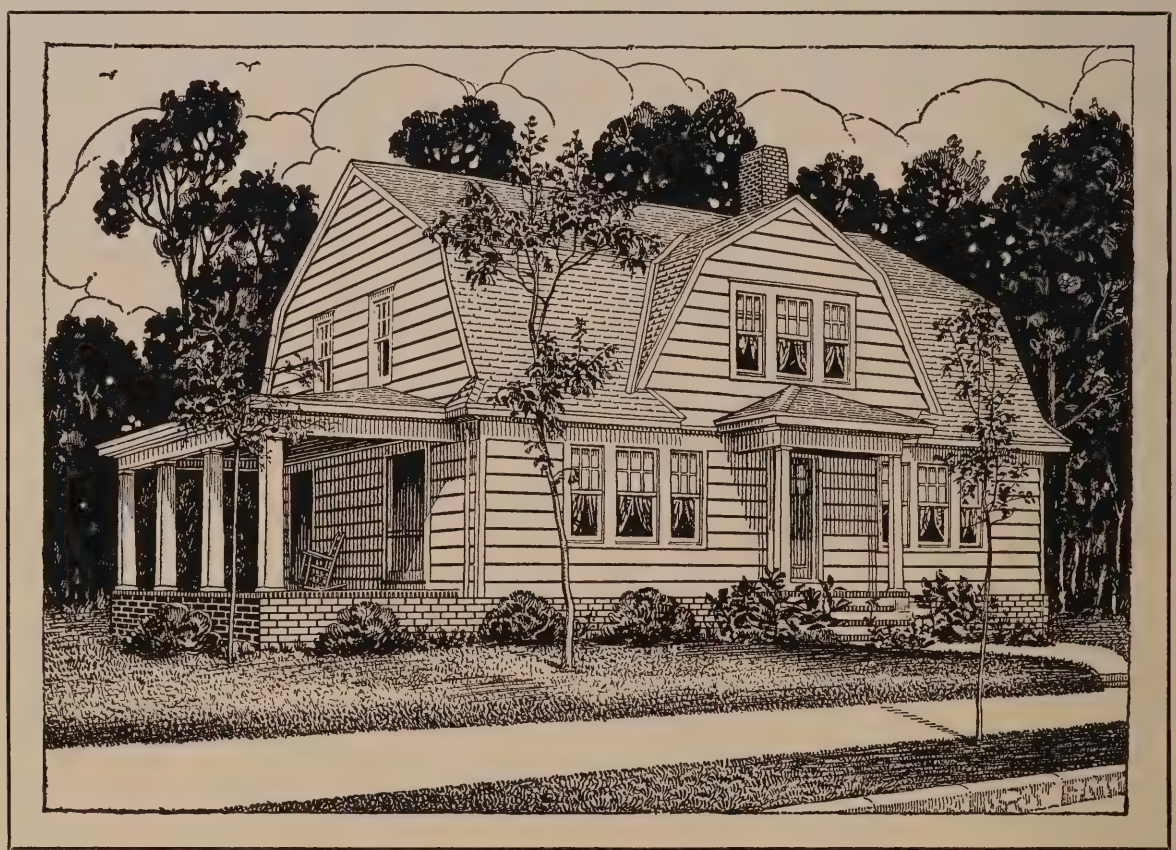
HOMASOTE is not a substitute for wood but a scientific improvement over wood. It is not a "built up" wallboard composed of layers but a homogeneous mass of interwoven fibre that presents a solid lasting weather-proof material for exterior and interior construction purposes.

Advantages

HOMASOTE is substantial permanent labor-saving, economical in cost and weather proof.

Thoroughly Tested Products

HOMASOTE is not a new and untried product. It has been manufactured and sold in steadily increasing quantities for a number of years. The growing demand has increased the original plant production 1000 per cent HOMASOTE is $\frac{5}{16}$" in thickness; this insures a most substantial product in every way. Its weather proof quality, insuring its great success for outside use, recommends it also for the interior of the home. For it will not split nor crack through either the vibration or settling of the structure, nor will it disintegrate through dampness, or by water from faulty plumbing.



The House Illustrated Above

Was covered on the outside with genuine *STANDARD HOMASOTE SIDING* (clapboard) 12" wide 10" to the weather: Ceiling and upper walls were of HOMASOTE PANELS painted.

No plaster whatever was used.

Sizes

$\frac{5}{16}$" thick and from four feet by eight feet up to eight feet by fourteen feet.

One Quality—

The best; insures against substitution.

For further details and literature, write to: THE PANTASOTE COMPANY, Inc., New York City

VEHISOTE—An Interwoven Fibre Board

Made by
THE PANTASOTE COMPANY, Inc.
249 Vanderbilt Ave., New York City

VEHISOTE
TRADE MARK



Different Forms of Vehisote

Vehisote is a wood pulp material formed into a panel without layers or laminations, the fibres being run together, interlocking and interlacing making one solid mass without grain. It cannot split nor crack with the settling of a structure in which it is used and is not affected by vibration.

Uses

Vehisote panels for high class walls and ceilings, readily lend themselves to any paint finish and decoration. Vehisote Grainboards in mahogany and oak for high class panel effects, need only a coat of finishing varnish after installation. Vehisote Tileboard for bathroom and kitchen walls, hospitals, laundries, etc., can be finished with high gloss enamel in any color desired on the job.

Advantages

Vehisote panels are in a class by themselves. The board has great resistance to moisture and usage and is remarkably permanent. The surface is of fine smooth texture and when painted is readily kept clean.

Hundreds of thousands of delivery wagons in the highest type of delivery service are equipped with Vehisote side panels; for the years have proved that it can successfully stand the vibration and weaving of the vehicle, cold, heat, rain and sleet; maintaining that lasting finish demanded to show to full advantage the rich art work with which such cars are decorated. Sizes 4 ft. by 8 ft. up to 8 ft. by 14 ft.

Thirty Days Under Water and Still in Perfect Condition

In 1911 the steamship "Madison" of the Old Dominion Line sank off Newport News, and was submerged for thirty days.

When raised and towed to dry dock, the joiner work was no longer serviceable but the panels of Vehisote, used throughout the passenger quarters were in such excellent condition that they were at once reinstalled in the vessel, and are still giving the most useful kind of service.

Vehisote Grainboard

Vehisote carries with it all the unexcelled qualities mentioned above. This board is the most perfect imitation of fine mahogany and oak finish and is obtainable in the uniform width of 4 feet and heights up to 14 feet, 5/16 inch thick. The product as it comes from the mill is grained and already has a color coat, requiring only a finishing coat of varnish after installation. Its appearance is vastly superior to any but the most expensive class of veneer and it has no layers which can separate under the changing conditions of summer dampness or winter heating plants.

Vehisote Tileboard

Simulating in appearance the finest tiling job, this board will not crack with the settling of a structure nor will it chip. It is the most sanitary type of wall covering for bathrooms, doctors' quarters, etc., and its imperviousness to steam and water in all forms makes it the leading product for this use.

Sizes

4 feet in height up to 14 feet in length, 5/16 in. thick.

For further details and literature, write to: **THE PANTASOTE COMPANY, Inc., New York City**

Plastergon Wood Fiber Wall Board

Made by

THE PLASTERGON WALL BOARD COMPANY

Philadelphia Ave., Buffalo, N. Y.

Products

This company makes a superior grade of Wall Board known as PLASTERGON. This is made in two styles—plain surfaced for use in living rooms, dining rooms, bedrooms and for all general purposes; and embossed with a tile pattern for use in bathrooms, kitchens, laundries, or wherever tile is appropriate.

A High Grade Wood Fiber Board

Plastergon is a high grade man-made lumber, made from virgin spruce fiber by first shredding the logs, then strengthening the fibers in a chemical bath and finally matting the fibers, under pressure, into compact sheets or "plies."

Four of these plies are cemented together to form a rigid, flawless board, smooth and even, and free from knots, cracks, seams or other blemishes found in natural lumber. This laminated construction results in a board of great strength and rigidity—a board that resists warping and twisting yet is light in weight and easy to handle.

Made Moisture Resisting at the Factory

Plastergon is not only well made but is finished well. Both sides of every panel are surface sized and sealed at the factory by a protective varnish coating that holds the board to a definite moisture content prevents absorption of moisture from the air, and eliminates the priming coat so that board is ready for the finish coat of paint as soon as it is nailed to the wall.

A Beautiful and Enduring Wall Finish

Plastergon is nailed to the studding in new buildings and can be applied over old plaster walls in buildings that are being remodeled or redecorated. It is used for covering both walls and ceilings and when finished in soft tones to harmonize with the decorations it makes a charming room. Its smooth mat surface cannot chip or crack and a wall or ceiling of Plastergon will last as long as the building itself.

It has been called "the Board for better results"—cheap enough to be used in attic, basement or garage and beautiful enough to be used in the finest room in the house.

Easy and Inexpensive to Install

Labor costs for finishing walls and ceilings are reduced to the minimum when Plastergon is used. A saw and hammer are the only tools required and a workman can cut the big panels to measure and nail them in place very quickly.

Lengths and Widths

Plastergon Wall Board comes in 32-inch and 48-inch widths and in even foot lengths from 6 to 16 feet.

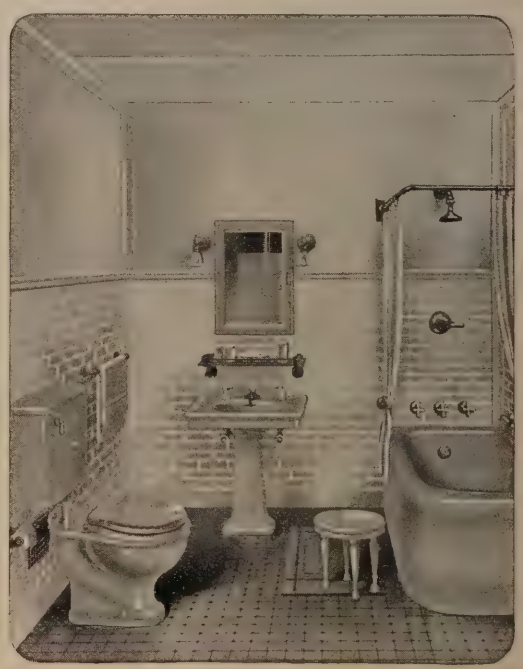
Plastergon Tile Board comes in strips 4 feet high and 6, 7, 8, 9, 10 and 12 feet long.

Descriptive Literature on Request

We will be glad to send any building contractor complete information on Plastergon Wall Board and Plastergon Tile Board. Write also for "The Plastergon Planner," a vest-pocket calculator that enables you to figure quickly and accurately the exact amount of Plastergon, trim and nails necessary to finish the walls and ceiling of any room from 8 ft. by 8 ft. to 18 ft. by 18 ft.



A Living Room Finished with Plastergon Wood Wall Board



A Bath Room Finished with Plastergon Tile Board

For further details and literature, write to: **THE PLASTERGON WALL BOARD CO., BUFFALO, N. Y.**

Sheetrock—the Fireproof Wallboard

Manufactured by the

UNITED STATES GYPSUM COMPANY

205 West Monroe St., Chicago, Illinois

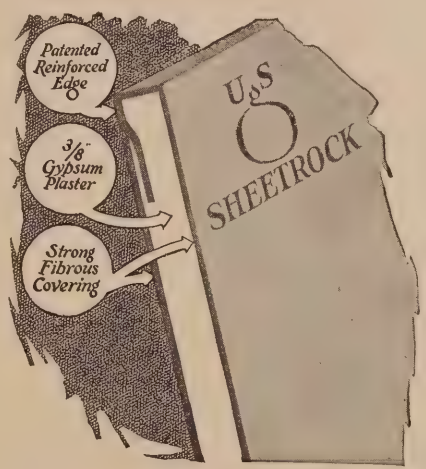
BRANCH OFFICES

New York, N. Y., 17 State St.
Buffalo, N. Y., Ellicott Square Bldg.
Boston, Mass., 100 Bolyston St.
Washington, D. C., 605 Lenox Bldg.
Baltimore, Md., 1008 American Bldg.
Philadelphia, Pa., 415 Otis Bldg.
Pittsburgh, Pa., 917 Bessemer Bldg.
Cleveland, Ohio, 625 Hanna Bldg.
Cincinnati, Ohio, 704 Atlas Bank Bldg.
Detroit, Mich., 1462 Penobscot Bldg.
Milwaukee, Wis., Grove and Oregon Sts.
Minneapolis, Minn., 634 McKnight Bldg.
St. Louis, Mo., 1339 Syndicate Trust Bldg.
Kansas City, Mo., 420 Lathrop Bldg.
Omaha, Neb., 705 Brandeis Theatre Bldg.
Denver, Colo., 603 Denham Bldg.
Los Angeles, Cal., 1105 Edwards & Wildey Bldg.

For Other Products see pages as follows: Stucco, 87; Plasters and Finishes, 97; Insulation, 117; Sheathing, 127; Textone Wall Decoration, 456.

SHEETROCK, The Fireproof Wallboard

A Rugged Construction: Sheetrock is a gypsum wall and ceiling material in unit form, designed to be used in new construction and for remodeling and repairing. It is manufactured in sheets 32 or 48 inches wide and 6 to 10 feet long, and consists of a 3/8-inch gypsum core protected by a specially prepared fibre covering which is folded to form square, reinforced edges. This edge is patented and assures greater nailing strength and perfectly fitting joints. Sheetrock is extremely strong and, when properly applied, adds definite bracing strength to the building.



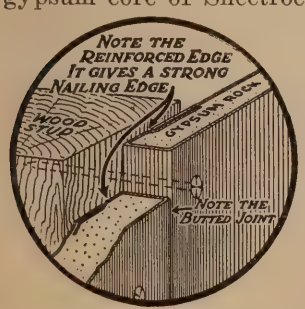
Many Reasons for Using Sheetrock

Fireproof: Sheetrock makes fire resistive walls and ceilings. It cannot burn, will not add fuel to fire, and, by confining flames to the space in which they originate, actually reduces the fire hazard. Each sheet bears the label of the Underwriters' Laboratories, Incorporated, who have tested Sheetrock for fire resistance and structural strength.

Cannot Warp or Buckle: Because it is made of gypsum, Sheetrock cannot warp or buckle and is not affected by moisture or climatic conditions. For this reason the material is adapted to use in moist climates and in locations (cellars, creameries, etc.) where exposure to moisture is common.

Takes Any Decoration: When joints and nailheads are concealed with Sheetrock Finisher, the Sheetrock wall offers a permanently smooth base suitable for any type of decoration—Textone, wallpaper, or paint. Panels are unnecessary but, if desired, may be used in any preferred design.

Insulates: By a special manufacturing process the gypsum core of Sheetrock is composed of millions of tiny air cells. As dead air is one of the most effective insulators known to science and as gypsum itself is an effective heat insulator, Sheetrock walls and ceilings keep objectionable heat out in summer and keeps buildings comfortably warm in winter with less fuel consumption.



Sanitary: Sheetrock makes sanitary walls and ceilings because it will not harbor germs and vermin and its tight joints offer no lodging place for dirt.

Easy to Erect: Sheetrock saws and nails like lumber and can be applied directly to studs and joists or right over old construction. Because of its ease of handling and the large size of the sheets, Sheetrock can be rapidly erected. Its use, therefore, reduces construction time.

Installation Is Simple:

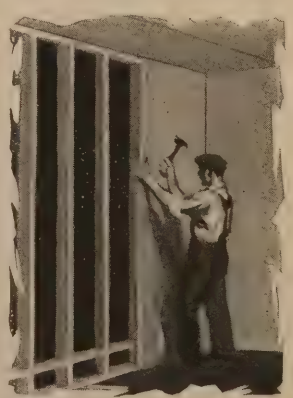
Sawing and Cutting: Use a sharp hand saw. When sawing, place the board on a bench, trade mark side downward, and firmly support it close to the sawing edge. Cuts that are to be covered with trim can be made by scoring with a knife or chisel and breaking over a straight edge. Bevel the cut edge on the face side with coarse sandpaper. Also bevel the mill cut ends before the board is nailed in place.

Nailing: Use 3d cement coated common nails (flat heads). On old plastered walls that are not furred use 6d cement coated nails. Drive the nails home with the heads slightly below the surface. Do not use a nail set. Draw all edges of Sheetrock firmly and evenly against supports. On all intermediate supports space nails 6 inches apart on ceilings and 9 inches apart on walls. On all sides and ends of boards space nails 3 inches apart and 3/8 of an inch from the edge—both walls and ceilings. Do not stagger nails on joining edges.

All four edges of Sheetrock must be nailed. First drive a few nails at the edge of the Sheetrock where it joins the board last applied; nail the first intermediate stud or joist; then nail the second intermediate stud or joist; then nail the edges and, finally, the ends. NAIL FROM THE CENTRE OF THE BOARD TOWARD EACH END.

Sheetrock Finisher: Sheetrock Finisher is a specially prepared material to be used in filling the joints and nailheads in Sheetrock walls. It is ready for use with the addition of water and may be applied with the special Finisher Knife or with an ordinary putty knife.

Sheetrock Finisher will not crack or pull away at the edges when it hardens, and assures smooth, permanent walls suitable for any type of decoration.



Nailed to Studding or Joists

For further details and literature, write to: **UNITED STATES GYPSUM CO., CHICAGO, ILL.**

GYPSOLITE WALLBOARD

Manufactured By

UNIVERSAL GYPSUM COMPANY

NEW YORK
FT. DODGE

CHICAGO

KANSAS CITY
ATLANTA

Products:

This Company manufactures Gypsolite Wallboard for interior walls, ceilings and partitions. Gypsolite Finisher, for filling joints and covering nailheads. Also Gypsum Plasters, Plaster Board, Tile, Stucco and Insulex, a Gypsum Insulation. (*See page 115*).

GYPSOLITE WALLBOARD
TRADE MARK

Gypsolite

A finished wall material, is a patented gypsum wallboard, machine built into large sturdy boards, predried and ready to nail to studding and joists.

Construction

The Gypsolite process produces a wallboard with uniform thickness that is 20% lighter in weight than all other gypsum boards, yet possesses greater strength and rigidity. Being of pure rock formation without saw dust or other substitutes, Gypsolite forms a solid continuous wall of rock that cannot warp, crack or bulge.

Sizes

Gypsolite is made in lengths of 6, 7, 8, 9 and 10 feet; width, 48 inches, thickness 3/8 inch. Samples will be sent on request.

Handles Easily

The unusual light weight and greater inherent strength of Gypsolite facilitates its ease in handling as well as application. It saws and nails as easily as lumber with a minimum breakage and no crumbling of the edges.

Highly Fire Resisting

Gypsolite is fire-proof, vermin-proof, and highly heat, cold and sound resisting. Rooms built with Gypsolite walls and ceilings are cooler in summer and warmer in winter.

Decorating

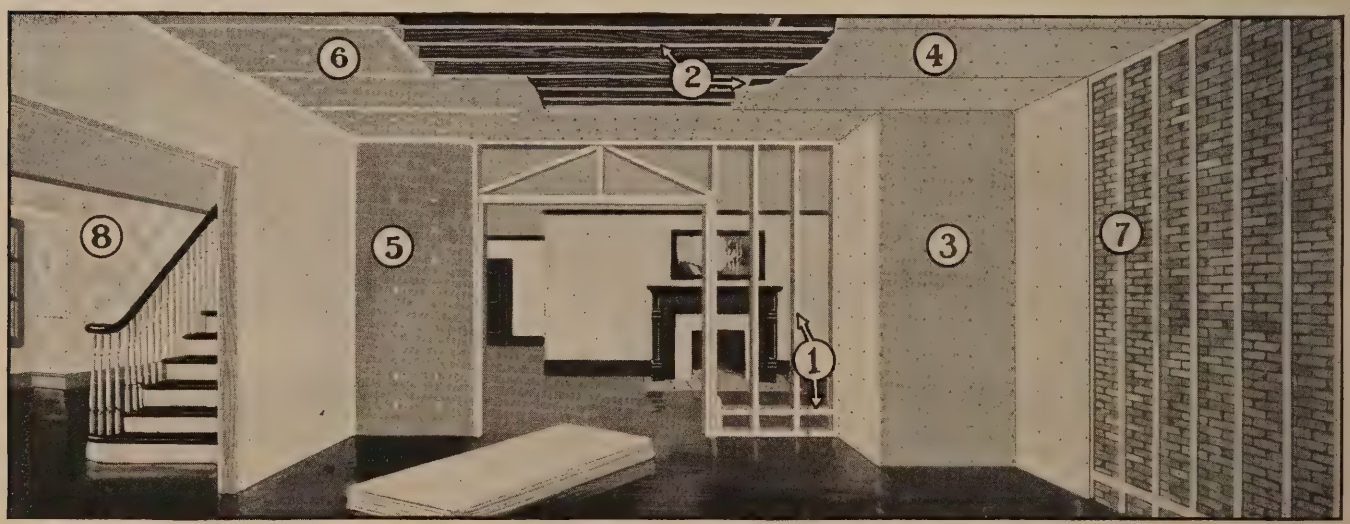
With its smooth, hard surface, Gypsolite lends itself readily to all types of interior decoration, such as wall paper, canvas, paint calcimine, etc.

For Construction or Improvements

Gypsolite is equally useful for new construction or improvements. A few uses are: attics, partitions, sun parlors, dairies, summer cottages, etc.

Gypsolite Finisher

This is a special preparation for filling joints and covering nailheads when Gypsolite is to be finished without paneling. Comes in powdered form and when mixed with water forms a putty cement which is easily and quickly applied. Put up in 5 pound containers.



Gypsolite Application

(1) Walls ready for applying Gypsolite on studding and headers.
(2) Ceilings ready for application of Gypsolite on joists and headers.
(3) Gypsolite applied to wall.
(4) Gypsolite applied to ceiling.
(5) Gypsolite on wall with filler in joints and nailheads.
(6) Gypsolite on ceiling with filler in joints and nailheads.
(7) Brick wall ready for Gypsolite with furring in place.
(8) Gypsolite result with wallpaper decoration.

For further details and literature, write to: **UNIVERSAL GYPSUM CO., Chicago**

Gyp-Lap—the Fireproof Sheathing

Manufactured by the

UNITED STATES GYPSUM COMPANY

205 West Monroe St., Chicago, Illinois

BRANCH OFFICES

New York, N. Y., 17 State St.
Buffalo, N. Y., Ellicott Square Bldg.
Boston, Mass., 100 Bolyston St.
Washington, D. C., 605 Lenox Bldg.
Baltimore, Md., 1008 American Bldg.
Philadelphia, Pa., 415 Otis Bldg.
Pittsburgh, Pa., 917 Bessemer Bldg.
Cleveland, Ohio, 625 Hanna Bldg.
Cincinnati, Ohio, 704 Atlas Bank Bldg.
Detroit, Mich., 1462 Penobscot Bldg.
Milwaukee, Wis., Grove and Oregon Sts.
Minneapolis, Minn., 634 McKnight Bldg.
St. Louis, Mo., 1339 Syndicate Trust Bldg.
Kansas City, Mo., 420 Lathrop Bldg.
Omaha, Neb., 705 Brandeis Theatre Bldg.
Denver, Colo., 603 Denham Bldg.
Los Angeles, Cal., 1105 Edwards & Wildey Bldg.

For Other Products see pages as follows: Stucco, 87; Plasters and Finishes, 97; Insulation, 117; Wallboard, 125; Textone Wall Decoration, 456.

GYP-LAP, The Fireproof Sheathing

Four Materials in One: Gyp-Lap is a gypsum sheathing material with exclusive advantages which recommend its use to contractors and home owners. In addition to providing unequalled sheathing efficiency, Gyp-Lap acts as a fire stop, insulates against heat and cold, adds strength to the building and eliminates the use of building paper. It is used as a backing for siding, brick or stone veneer and stucco.



Gyp-Lap Applied to Studding, Notice the Interlocking Edge

Large Sections Quickly Applied: Gyp-Lap is manufactured in wide sheets one-half inch thick and eight feet long. Because each section covers many square feet of wall at one operation, a building can be sheathed with Gyp-Lap in a surprisingly short time.

Gyp-Lap can be sawed to fit snugly around openings and it nails as easily as lumber. Because of its thickness and ruggedness, Gyp-Lap braces the entire building and gives greater resistance to racking and wind stresses.



Frame House Sheathed with Gyp-Lap

Interlocking Edges: Each section of Gyp-Lap has patented edges which interlock perfectly with the adjoining sheets and make wind tight, vermin-proof joints. The use of building paper is unnecessary with Gyp-Lap.

Fireproof, Insulating, Water Resistive: Gyp-Lap cannot burn and it acts as an effective fire-stop. Because it is made of gypsum rock, one of the best natural insulators, Gyp-Lap resists the passage of heat—keeps buildings cool in summer and reduces fuel consumption in winter. It also resists sound transmission and should be used between floors as well as in walls and under roofs.

The covering of Gyp-Lap is specially treated to resist water and, because of its non-absorbent quality, the board provides an ideal stucco backing.

Directions Are Simple:

Apply Gyp-Lap directly to framework with length crosswise of studs. ALWAYS PLACE GROOVED SIDE DOWN.

Place trade mark side in.

Fasten securely with 6d cement coated or galvanized common nails, 4″ apart on each stud and ⅜″ from edge of boards.

Butt the ends tightly and interlock the side edges. Stagger vertical joints.

Fit tightly around all door and window frames.

When Gyp-Lap is used as the base for Oriental Stucco exteriors, a No. 14 gauge galvanized wire reinforcement, with mesh not over 2″ square, and crimped so that it is self furring, should be applied over the entire wall. (See Gyp-Lap and Oriental Stucco Folder OS 1 for complete specifications.)

For further details and literature, write to: **UNITED STATES GYPSUM CO., CHICAGO, ILL.**

UPSON (Processed) BOARD

Made by

THE UPSON COMPANY

Lockport, New York

The Fibre Board with the Famous Blue Center

The Nearest-Perfect Wall and Ceiling Material

UPSON BOARD IS DIFFERENT

No matter what your past experience with wallboards, this dependable material will win your approval in scores of ways.

Harder, Stiffer, Stronger!

"You never realize the real possibilities of a good fibre wallboard until you try dependable Upson Board."

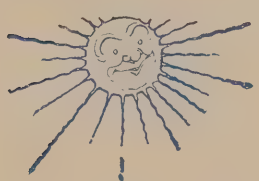
Dozens of letter in Upson Files—from builder, architects, home owners—bear out this statement.

Upson Board is *different*. As an illustration, seven men weighing over 1,000 pounds can be supported on a single panel of Upson Board, whereas under the same test, a panel of gypsum-filled board breaks with less than one-third the weight.

Resists Moisture

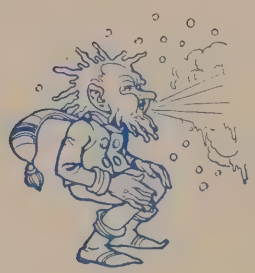


In another conclusive test, Upson Board immersed in water for a given length of time gained only one-fourth as much weight as a sample of gypsum-filled board exposed to the same test. Other fibre wallboards tested in the same way were found to absorb nearly twice as much water as Upson Board.



Resists Fire

Dozens of letters in Upson files prove that Upson Board walls and ceilings retard the progress of fire. Upson Board chars rather than burns.



Resists Heat and Cold

Other certified tests proved Upson Board a better non-conductor of heat and cold—cooler in summer and warmer in winter. The closely meshed wood fibres of Upson Board form millions of dead air pockets, the most efficient insulation against any type of climatic condition.

Resists Jars and Blows



In another certified test by an impartial laboratory, weights were dropped from several heights upon specimens of different wall materials. Upson Board withstood an impact of 40% to 70% more than the other fibre wallboards tested, and nearly 150% more than plaster-filled boards twice as thick. Jars and blows that would ruin ordinary plaster walls have little or no effect on Upson Boards.



Resists Time

Experience proves the long life of Upson Board. Properly applied, it should never warp or bulge and should lie flat on the wall as long as the building stands.

Its adaptability to every condition recommends it for constant consideration by builder or architect.

SPECIFICATIONS

Upson Processed Board. ⅛ in., 3/16 in., ¼ in., ⅜ in., in thickness. 6 ft., 7 ft., 8 ft., 9 ft., 10 ft., 12 ft., 14 ft., and 16 ft. in length. 32 in., 48 in., and 64 in. in width. Packed 10 to 15 panels to the bundle.

Made of selected wood fibres—mostly spruce. Has the distinctive Upson *Super* or "pebbled" surface—ideal for painting. Either side of the board can be used.

Upson Board is *pre*-sized at the factory. One or two coats of paint are sufficient. It is *kiln-dried, waterproof*. Upson Board will not crack, chip or fall. Properly applied, it *should not warp or bulge—should lie flat on the wall as long as the building stands.*

Upson Fibre-Tile. A special Upson Processed Board with tile indentation. 3/16 in. in thickness. 6 ft., 7 ft., 8 ft., 9 ft., 10 ft., 12 ft., 14 ft. and 16 ft. in length. 48 in. in width. Two patterns: square and oblong.

Its hard, smooth surface is ideally adapted for enameling. It does not crack along the tile indentation like ordinary tile boards. Possesses all the qualities of Upson Processed Board.

Upson Self-Clinching Fasteners. Apply the exposed surfaces of Upson Board and Upson Fibre-Tile with Upson Fasteners (Patented). It is the only device which successfully eliminate unsightly nailheads, a big objection to all other wallboards. Upson Fasteners anchor the panels invisibly, *from the back.*

Special Advisory and Cutting Service. The Upson Company maintains consulting experts and special cutting equipment for your convenience on individual "cutout" problems. We urge you to take advantage of this unusual free service.

For further details and literature, write to: **THE UPSON COMPANY, LOCKPORT, N. Y.**

UPSON BOARD is quickly and EASILY APPLIED

A few simple precautions that insure a permanently beautiful job.



Note the beautiful paneled ceiling and walls of this bedroom.

These beautiful interiors are fitting evidence that well-designed paneling is deservedly popular. No scheme of decoration is more pleasing.

One good job generally sells half a dozen more. That's why the Blue Book will increase your profits.



A Bathroom paneled with Upson (Processed) Fibre Tile.

The big panels of Upson Board are so light in weight that one man can apply them. In remodeling, they are nailed right over the old plaster and furring strips. In new construction, they are applied direct to studs and joists.

First Preparation

Plan your panel arrangement first. Write The Upson Company for helpful blue print and suggestions. Then level up all joints and studs to form a perfectly flat and smooth nailing surface. Be sure to place headers or nailing pieces at top of baseboard flush with studs, back of plate rail or picture mouldings, and at angle of ceiling.

In applying the Upson Board panels, apply the ceilings first. Do not butt the panel edges. Leave 3/16 inch space between.

Upson Self-Clinching Fasteners on intermediate studs eliminate disfiguring nail marks. Nail panel edges as per Upson direction sheets.

Paint Before Applying Strips

Upson Board should be painted before the decorative strips are applied. Otherwise, if the trim shrinks slightly, it may leave a white edge where the wallboard has not been painted.

Do not cover Upson Board with wallpaper. Finish it with an attractive shade of any good flat wall paint.

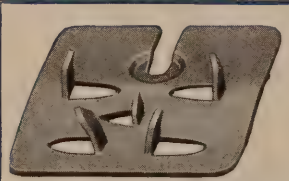
Apply Strips to Suit Plan

Many otherwise beautiful Upson Board jobs have been ruined by unsuitable wood trim. Apply beams and mouldings to harmonize with the character of the job. The Upson Design Department will gladly give you helpful practical suggestions.

Furring Strips Over Old Walls

When Upson Board is applied to brick, stone or other walls which may contain moisture, furring should be nailed so that each panel can be securely fastened to it. Uneven plastered ceilings should also be furred.

Upson Self-Clinching Fasteners, patented, invisibly and securely anchor the center of Upson Board panels



UPSON
Patented
FASTENERS
Eliminate
Nail Marks

from the back, and so eliminate the ugly nail marks that show in the exposed surfaces of all other wallboards. Ask the Upson lumber or building material dealer for them—if he hasn't them in stock, write The Upson Company, Lockport, New York.

For further details and literature, write to: **THE UPSON COMPANY, LOCKPORT, N. Y.**



Let us send you plan for Upsonizing any room in your house.



The handwriting on the wall says "UPSONIZE"!

Renew, restore, reclaim, this quick and modern way!

THERE is a quick and easy way to build permanent beauty into walls and ceilings anywhere. *Upsonize!*

The goblins of wear and decay have little effect on Upson Board. For Upson Board is really refined lumber.

You apply the sturdy, room-high panels of Upson Board right over the old plaster—write us for a plan. Then, paint—apply wood mouldings, and—

The room is finished! Little dust or muss, no irritating delay! Upson Fasteners, patented, eliminate disfiguring nail-marks.

And properly applied, Upson Board walls and ceilings should never warp or buckle—they should last as long as the building stands.

Upson Board is fittingly adapted for every type of home—the fine mansion—the modest cottage.

For the builder or architect who is searching for distinctive interiors in good taste, period designs in Upsonized rooms offer unlimited possibilities.

This Colonial living room above is just one example of what can be done. Write for detailed service.

A Snow-White Bathroom or Kitchen

Upson Fibre-Tile, when enameled, looks and wears like expensive ceramic tile; yet costs but about one-tenth as much. The big corner-to-corner panels are easily applied. They successfully withstand moisture and steam, even ordinary leaks.

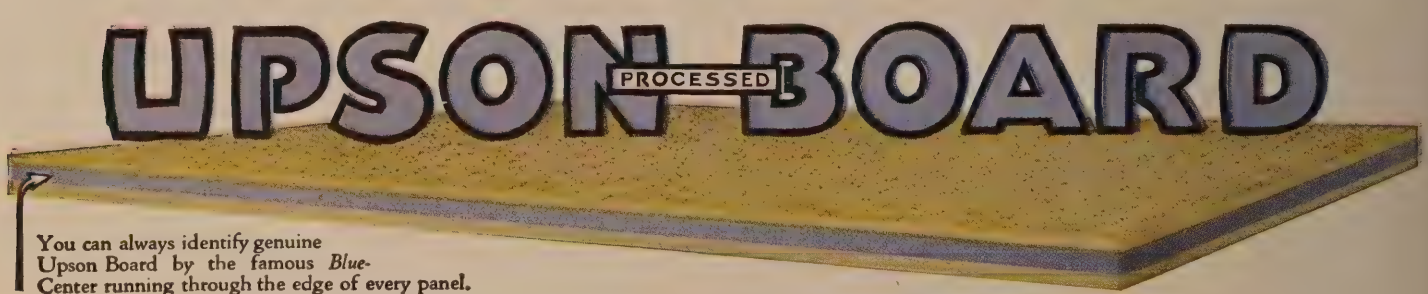
Upson Board Is Different!

Laboratory tests prove an impact of from 40% to Upson Board a splendid nonconductor of heat and cold.

Upson Board withstands an impact of from 40% to 70% more than other wallboards and nearly 150% more than plaster-filled boards twice as thick.

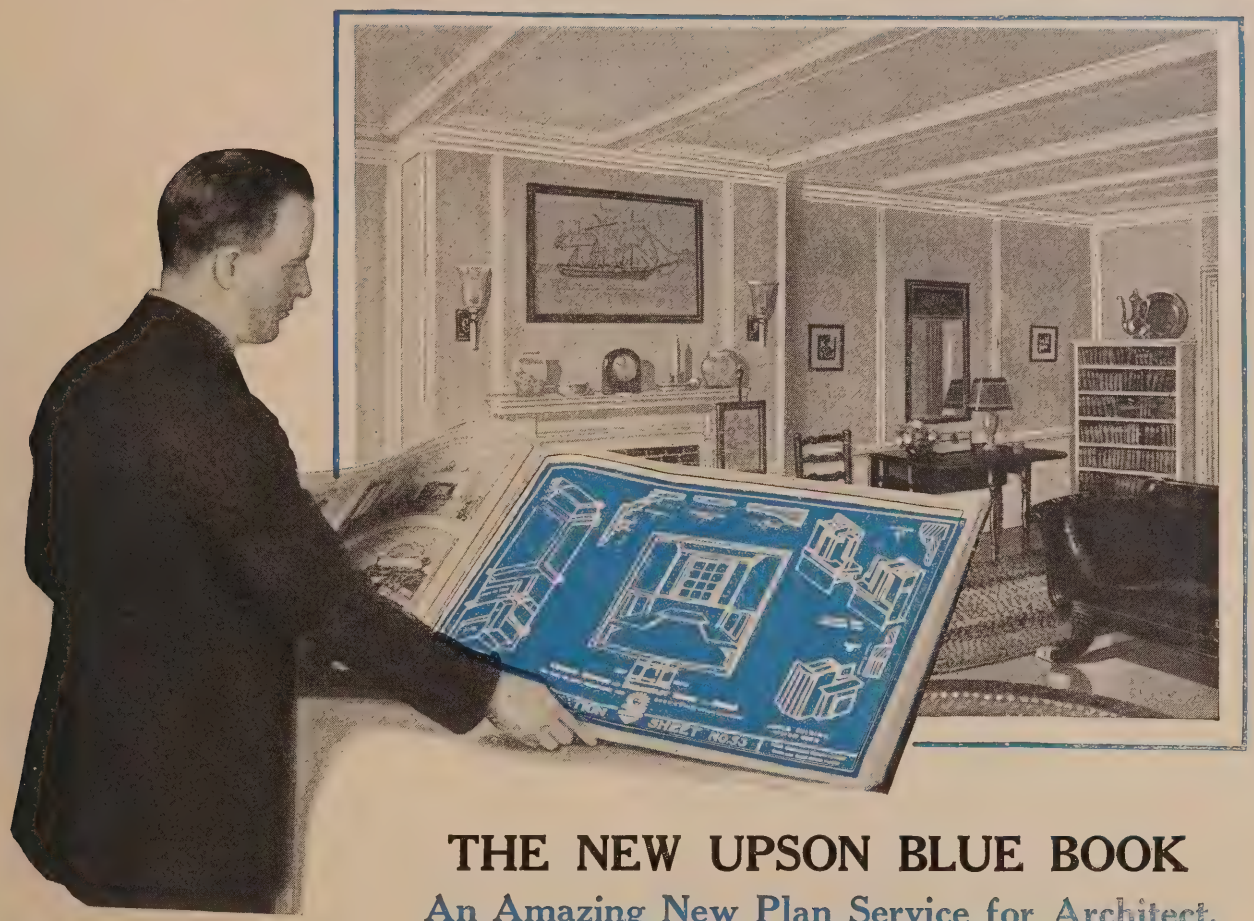
Immersed in water, Upson Board gains only 6 2/3% as much in weight as gypsum-filled board and little more than half as much as other fibre wall-boards tested.

Dozens of letters in our files prove that Upson Board offers an effective barrier against fire. It chars rather than burns.



You can always identify genuine Upson Board by the famous *Blue-Center* running through the edge of every panel.

For further details and literature, write to: **THE UPSON COMPANY, LOCKPORT, N. Y.**



THE NEW UPSON BLUE BOOK

An Amazing New Plan Service for Architect, Builder and Home Owner

"Every builder in America should see this wonderful new book." So said Mr. F. D. Trankle of John Feist & Sons Company, contractors and builders of Buffalo, N. Y.

The new Upson Blue Book—already in the hands of most Upson dealers—is the most complete plan service ever offered for beautifying walls and ceilings. It is the product of three years work by famous architects, supervised and aided by Upson executives.

Any good carpenter, by following these Upson Blue Prints, can build Upsonized rooms unsurpassed in beauty by the finest of interiors to be found anywhere.

Answers Every Wallboard Question

Every builder knows the perplexing problems that come up constantly in the good application of wallboard.

"How shall I treat the trim around doors and windows, when Upson Board is applied direct to the studs and window and door casings are made to be used with plaster?"

"How shall I treat the baseboard when Upson Board is applied direct over old plaster and the old base is not removed?"

"What is the proper method to use when Upson Board is applied direct over old lath from which the plaster has been removed?"

These and scores of other questions are answered completely in this amazing new book.

Forty Full-size Blue Prints

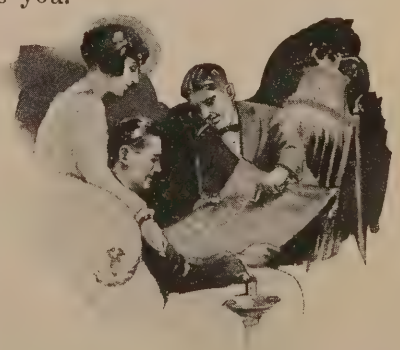
Forty detail blue prints—drawn by several of America's leading architects—show every type of wallboard construction.

Full color illustrations show Upson Board possibilities in many settings and offer suggestions for harmonious trim and decorations.

Write for Plan to Fit Any Work

Write the Upson Company, Lockport, New York, on your business letterhead and enclosing ten cents for full size blue print covering any particular type of work which interests you.

Ask your lumber dealer to show you the blue book itself. Many lumber dealers already have it in their offices—others are getting it. Ask your dealer to see it—today.



For further details and literature, write to: **THE UPSON COMPANY, LOCKPORT, N. Y.**

THATCHSLATE ROOFS

THE JOHN D. EMACK CO.,

Chicago Office
Burt T. Wheeler Brick Co.,
Chamber of Commerce Bldg.

Home Office
112 So. 16th Street,
Philadelphia

New York Office
17 E. 49th Street

Detroit Office
Thomas Bros. & Co., Ltd.,
415 Brainard Street

Cincinnati Office
The Baldwin-Tarvin Co.,
Sixth and Carr Streets



This charming home, at Douglaston, L. I., designed by Frank J. Forster, is an interesting Thatchslate Roof subject. Note that scarce any two slates are of the same shape. Still, when you study them carefully, you see there is, nevertheless, a very definite design throughout. It's this that makes slate-thatched roofs so entirely different from any other slate roof.



Thatchslate subject erected in Merion, Pa. After private plans.

Products

THATCHSLATE Roofs, Colonial Green, Colonial Gray, Olde Stonesfield Roofs, Olde Stonesfield Flagging and Stepping Stones.

Thatchslate

THATCHSLATE is neither the ordinary, even thickness, so-called commercial square cut slate; or the heavily graduated kind.

It is midway, between the two.

It makes a roof of distinctly different effect, in its varying shapes, thicknesses and colors.

A roof especially adaptable for houses of moderate cost, where exceptional charm and uniqueness is desired.

The bottom or butt of each slate is cut to a different shape, made possible only by the Thatchslate patented method of cutting and shaping the butts.

The effect is entirely different from the crude method of clipping off the corners, and cutting on varying slats.

Thatchslate is exclusively a John D. Emack product.

In cost it stands about half way between square cut commercial slate and the heavily graduated Olde Stonesfield.

THATCHSLATE ROOFS (Cont'd)

Olde English Roofs

FOR use on the more costly houses where reproduction of Old English stone roofs are desirable.

Its particular advantage for such, lies in its wide range of colorings and natural cleft surfaces; combined with the extended variation in thickness and length.

It at once gives an age toned effect to a building, of never tiring interest.

Olde Stonesfield Roofs are the finest of the kind, that money can buy.

Olde Stonesfield Flagging and Stepping Stones

BOTH are made of natural cleavage slate in various colors. The flagging is cut in random rectangular shapes, or made to fit a definite pattern. Also in irregular or natural shapes.

It is being used extensively for walks, terraces, stoops, entrances and for floors of rooms.

Olde Stonesfield Stepping Stones for garden walks, give a delightful old-fashioned effect, so much in demand these days.

Service

Send us blue prints of your buildings and we will without cost to you furnish an estimate for a treatment best fitting your building.

If there are no roofers in your vicinity, we will gladly put you in touch with some.

Shipments are made direct from our collecting yards, in the Vermont region.

Printed Matter

To printed matter about both the roofs and the flagging and stepping stones, you are most welcome.

Send for circulars:

42A—"Graduated Olde Stonesfield Roofs."
42B—"Thatchslate Roofs."
42C—"Olde Stonesfield Flagging."



Olde Stonesfield Flagging cut in random rectangular shapes. Even in this black and white illustration you can get a fairly good idea of the charm of color variations.



Of late, Olde Stonesfield Flagging has found a very definite use for floors, as it has many centuries been so successfully employed in Europe.



An Olde Stonesfield roof. Note how unlike the Thatchslate. It is patterned entirely after the designs and laying methods of England's ancient stone roofs of the famous Cotswold district. Olde Stonesfield is the last word in heavy graduated slate roofs.



Here we have still another treatment of Old Stonesfield Flagging used to make a charming terrace. The grass is left to grow up in between the flagging, lending a charm and softness to the irregular shapes, as well as another touch of color.

Imperial Vitreous Shale Roofing Tiles

SALES OFFICES:
NEW YORK—
565 Fifth Ave.
WASHINGTON—
738 15th St. N. W.
PHILADELPHIA—
1315 Walnut St.
PITTSBURGH—
355 Fifth Ave.

Made by

Ludowici-Celadon Company

GENERAL OFFICES:
104 S. Michigan Ave., Chicago, Ill.
Factories: New Lexington, Ohio; Peru, Kansas; Coffeyville, Kansas.

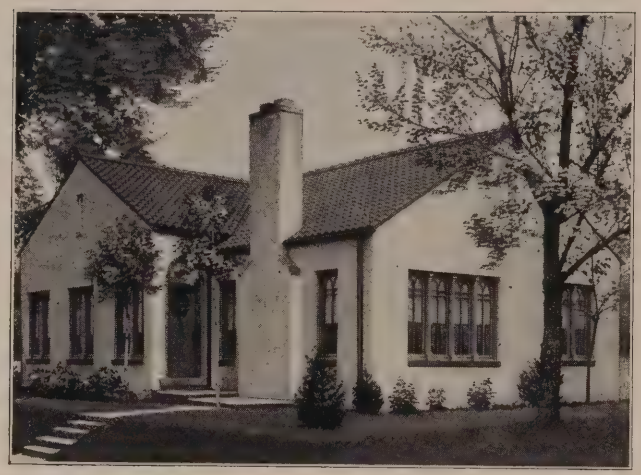
SALES OFFICES:
CLEVELAND—
1836 Euclid Ave.
CINCINNATI—
Schmidt Bldg.
ST. LOUIS—
700 Chestnut St.
KANSAS CITY—
214-A East 10th St.

Product:

This company manufactures "Imperial" Shale Roofing Tiles—a very high grade product made from the best of raw material and with the most modern machinery, every detail being carefully supervised by skilled artisans.

Attractiveness:

A roof of Imperial Shale Tiles can be constructed to harmonize with any type of dwelling. Their rich, warm colorings and pleasing play of lights and shadows add to the beauty of any home. No other type of roofing can truthfully imitate the variegated color effects that hard-burned tiles alone yield permanently.



No Heavier Under-Construction Necessary:

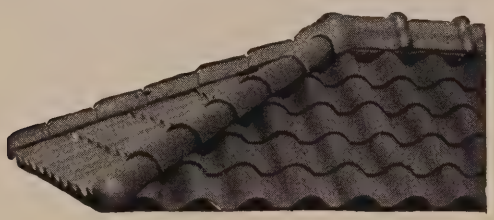
Tile roofing does not require much heavier underconstruction than other roofing materials—2x6-inch wood rafters, such as are used for ordinary residence construction, have sufficient strength to support tile roofing when spaced not more than 16 inches on centers.

Advantages of Imperial Tile Roofing:

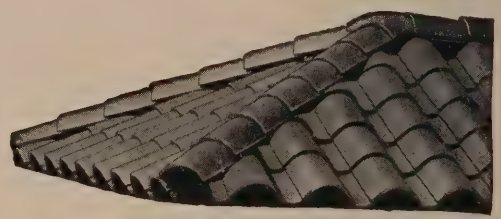
The first cost is its *only cost.* No paint or stain is needed to retain its original beauty. Examples of their everlasting quality is seen on every hand. European cities abound with structures protected for centuries by their roofs of ancient tiles. Sun, wind, rain or climatic changes have no effect on their wearing qualities or coloring. If properly applied they never require replacement or repairs. They are absolutely weatherproof and non-conductive—making the house warmer in winter, cooler in summer and so strictly fireproof that insurance companies allow a reduction in rates on structures covered by them.

Many Shapes, Shades and Textures:

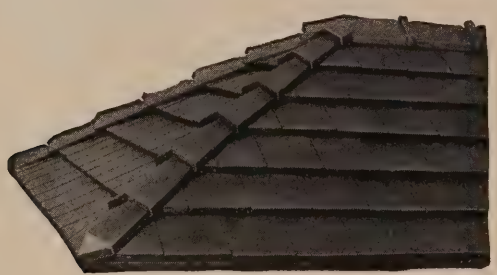
In addition to the four standard shapes shown below, there is an almost unlimited variety of shapes, shades and textures that readily lend themselves to distinctive roofing effects.



Imperial Spanish Tiles: Are particularly adapted to those styles of architecture that add so much to the picturesqueness of Southern Europe, from the massive buildings of classical form to the small bungalows where romatic or unusual effects are sought. Tiles are formed with a lip-and-lap lock that provides positive potection from the wheather. Length 13¼ inches; Width 9¾ inches; average exposure 8¼x10¼ inches; average pieces per square 171; actual weight per square 950 pounds; shipping weight per square, with fittings, 1050 pounds.



Imperial Straight Barrel Mission Tiles: Are recommended for use where a rough and polychromatic effect is desired. Obtainable in an almost unlimited range of colors and shades, it is possible to tone a roof to harmonize ideally with the building it covers and the surroundings. Can be laid either random or regular exposure. Average exposure in length, 11¼ inches; width, center to center of covers, 11½ inches; average pieces per square 224; actual weight per square 1200 pounds; shipping weight per square, with fittings, 1300 pounds.



Imperial Closed Shingle Tiles: A pattern widely used to carry out the idea of Colonial or Early English architecture. Has a tongue-and-groove lock and is far superior in actual strength to the ordinary flat shingle. In depth of reveal it accentuates the horizontal line, avoiding the monotonous effect of other flat roofing material. Length 11 inches; width 8¾ inches; average exposure 8x8 inches; average pieces per square 225; actual weight per square 900 pounds; shipping weight per square, with fittings, 1000 pounds.



Imperial French Tiles: An "all-around" tile that may be used with almost any type of house. Has a tongue-and-groove lock. While the general effect is flat, the convolutions in the surface afford considerable play of light and shadow. Length 16¼ inches; width 9 inches; average exposure 8⅛x13⅜ inches; average pieces per square 133; actual weight per square 925 pounds; shipping weight per square with fittings, 1025 pounds.

For further details and literature, write to: **LUDOWICI-CELADON COMPANY, CHICAGO, ILL.**

Rex Flintkote Shingles, Roofings and Building Paper

Manufactured by

THE FLINTKOTE COMPANY

NEW YORK	BOSTON	CHICAGO
2319 Pershing Sq. Bldg.	809 Park Sq. Bldg.	521 Peoples Gas Bldg.

DISTRIBUTED BY LEADING LUMBER AND BUILDING SUPPLY DEALERS EVERYWHERE

Anaconda-Flintkote COPPERCLAD Strip Shingles

They Are Enduring in Quality

Copperclad is an extra heavy weight asphalt shingle with a wearing surface of copper 99.99% pure. Copper is recognized as the finest roofing material known. It is the long lived roofing material—time and weather have no deteriorating effect upon it. The copper covering strengthens and stiffens the shingle so that the possibilities of curling or of blowing up in heavy winds are eliminated. The result is a shingle of long life and adequate rigidity.



They Are Fire Resisting

Copperclad has been awarded the highest rating, Class A, by the Fire Underwriters Laboratories. It has successfully withstood the most rigid tests under all conditions of heat and cold.

They Are Beautiful

Copperclad is noted for its beauty as well as its enduring qualities. The color effect is ever changing—no two roofs are alike. The soft blending tones of jade and blue give color combinations much sought by the architect and contractor.

They Are Easy to Apply

Made in the popular strip shingle form they are easily and quickly applied, and the cost of application is correspondingly low. No special roof construction or supports are necessary, for Copperclad are light in weight (average weight 250 lbs. per square) as compared to other roofings as permanent and enduring in character and quality. Apply only with copper nails.

REX FLINTKOTE *Colordrift* STRIP SHINGLES



Only in the making of strip shingles, because of their width, has it been found possible to so blend and diffuse a variety of colors, that when once applied on the roof there is a complete avoidance of sharp color contrasts, of color pattern, splotches of color or ziz-zag streaks of color.

Colordrift, although widely copied, have not yet been equalled in color warmth, their beauty is unrivalled. The perfect blending of a variety of harmonious colors in a Colordrift roof, adds a wealth of charm and beauty to any well designed home.

All types of Rex Flintkote Strip Shingles are available in the Colordrift finish. They are applied just as they come in the package, there are no color charts to follow there is no sorting or mixing on the job.

For further details and literature, write to: **THE FLINTKOTE COMPANY** Boston, Mass., or Nearest Branch.

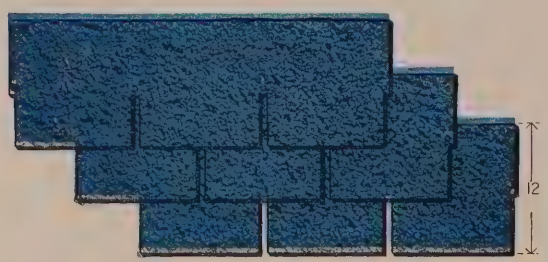
Rex Flintkote Shingles, Roofing and Building Paper (cont.)

THE PROOF OF THE SHINGLE IS IN ITS APPLICATION

A shingle may be perfect from the standpoint of its waterproofing qualities and beautiful appearance, but unless it can be laid easily, quickly, safely, and economically, its sale will not survive. It is the application of the shingle that is the test of its practicability.

Strip Shingles have met the test—and not only survived, but flourished. Each year their sale has increased, and today they are easily outselling any other type of shingle. As many are now sold in one month, as were formerly sold in a whole year.

Their popularity with all classes of builders has been well deserved for they are easily and quickly applied; to apply them right is easier than to apply them wrong; they are cheaper to apply than any other type of shingle, and they are applied in overlapping units, the only dependable and absolutely safe way.



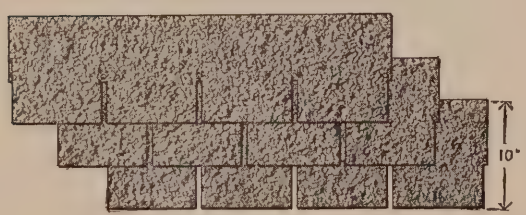
Rex Flintkote GIANT Strip Shingles

The biggest, thickest, stiffest asphalt strip shingle ever made. Once applied they lay like slate or tile—they are so heavy and stiff that they will not blow up in the mind. Compare them with any standard weight asphalt shingle; the comparison will prove they are truly Giants in every respect—Giants in quality, value, and durability, as well as weight, thickness, and size. Colors: Red, Green, Blue-Black, and beautiful Colordrift.

Rex Flintkote 12½″ Strip Shingles

A super-safe roof. These shingles are 12½″ deep, and are laid with 4″ exposure to the weather. Every contractor knows the advantage of such a shingle over Individuals. They are really four Individual Shingles combined into one strip—and as a result they are easier and cheaper to apply—they are safer too. Colors—red, green, blue-black and beautiful Colordrift.



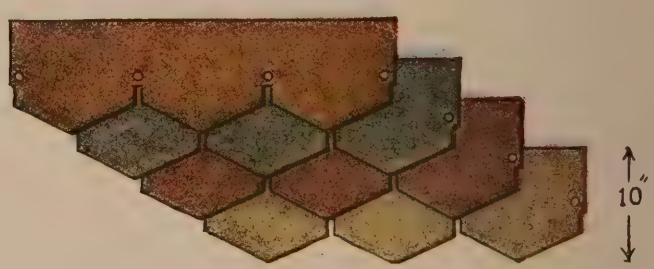


Rex Flintkote 10″ Strip Shingles

Tested by years of splendid service they have proved to be absolutely reliable, dependable, and economical. They are the most widely used and popular of all asphalt shingles. Colors: Red, Green, Blue-Black, and beautiful Colordrift.

Rex Flintkote Hextab Strip Shingles

A distinct improvement over other types of hexagonal asphalt shingles. They have been designed to meet the demand for an economically priced shingle of most attractive pattern. The cut-outs in the shingle form deep shadow lines up and down the roof, breaking up the diagonal lines—the result is a most pleasing effect. The tab centers right over the top of the cut-out providing a self-aligning feature which makes it the fastest laying strip shingle. Colors—red, green, blue-black and beautiful Colordrift.



Rex Flintkote Shingles, Roll Roofing and Building Papers (cont.)

Rex Flintkote Roll Roofing

The only true measures of quality and worth of a roofing material are the raw materials and the proportions in which they are used. Rex Flintkote Roll Roofing is the only Smooth Roll Roofing sold under a Certificate of Quality. This is your best assurance that you are going to get your money's worth when you buy this product. Just enough asphalt is used to saturate the felt completely—there is no over-loading on the surface of the sheet to make up the weight—it is a genuine quality product through and through. Every roll invites comparison. Made in four weights—35, 45, 55 and 65 lbs.—108 square feet to the roll. When you buy Roll Roofing demand to know just what you are buying. Look for the Rex Flintkote Certificate of Quality which appears on every roll. These enlarged cross sections show the proportions of felts, asphalt saturation and asphalt coating used in making the four weights of Rex Flintkote Roll Roofing.

Certificate of Quality

We Hereby Certify:

That in the manufacture of 65 pound REX FLINTKOTE ROOFING, only the very best materials are used, in those proportions shown below, which produce the highest quality roofing:

FELT (UNSATURATED) . .	about	14.5 pounds
ASPHALT SATURATION . .	"	24.7 "
ASPHALT COATING	"	17.3 "
TALC SURFACING	"	6.0 "
NAILS, CEMENT and PACKAGE	"	2.5 "
Shipping Weight, Average		65 pounds

The base or fabric of this roofing consists of Felt, having an average weight, unsaturated, of 68 pounds to 480 square feet. The asphalt saturation absorbed by this felt is equal to approximately 170% of its weight.

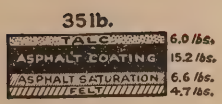
THE FLINTKOTE COMPANY.

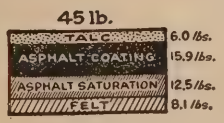


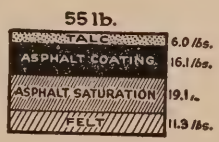


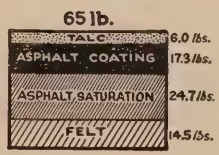


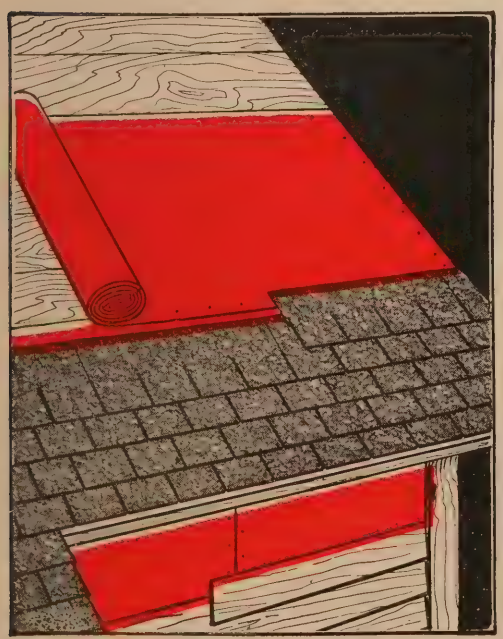




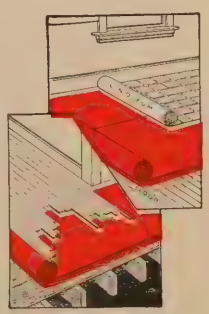








Rex Flintkote K-B Sheathing



We conscientiously state that K-B Sheathing is the best Sheathing Paper on the market today. It is a single sheet of paper with a continuous sheet of asphalt laid between the liners of the paper when it is made. This sheet of pure asphalt naturally forms a barrier against the passage of water. It repels vermin and resists heat and cold. These insulating qualities are found only in their maximum degree in K-B Sheathing, and K-B Sheathing retains these much desired insulating qualities. It is also odorless, sanitary, durable and economical. It has unusual tensile strength. Because it costs so very little, it is the most profitable investment for long time protection. To sheathe and insulate the average home with K-B will not add materially to the original cost of the home—an investment that will pay dividends during the life of the house. Use K-B Sheathing all over the house. It is light red in color—flexible to handle. Made in four weights—20, 25, 30 and 40 lbs. per roll of approximately 500 square feet. Width 36".

For further details and literature, write to: **THE FLINTKOTE COMPANY** Boston, Mass., or Nearest Branch.

NU-TILE ASPHALT SHINGLES

The Asphalt Shingle That NEVER CURLS

Made by

AMALGAMATED ROOFING CO.

Executive Offices: 431 South Dearborn St., Chicago

Factories at Clearing, Illinois

Why NU-TILE Never Curls

All asphalt shingles lie flat on the roof—at first. But when the heat of summer evaporates the compound with which they are saturated, a poorly made shingle begins to curl. A shingle that curls is a shingle that has dried out—that is the long and short of it. Prevent it from drying out and you prevent the shingle from curling.

Several things are necessary in order to make an asphalt shingle that will not dry out and as these mean more expense and trouble for the manufacturer they are sometimes neglected.

First you must have a sound, felt base—an all rag left. Then you must have a saturating compound that shows no tendency to evaporate. And lastly (we speak from long experience) you must coat not one side of the shingle, or roofing, but *both sides.*

Contrary to popular belief, shingles deteriorate more rapidly from below than from above. Hence the need of giving the same careful attention to the under side that is given to the surface exposed to the weather.

This is the method by which NU-TILE Shingles are made and although they are extensively used in Florida and other parts of the South, not a single case of curling has ever been brought to our attention.

Our guarantee that these shingles will not dry out nor curl is based on 10 years' experience with them under all climatic conditions.

NU-TILE Means Best Roofing Value

There is no handsomer roof than one made of NU-TILE Asphalt Shingles. It has a permanent and beautiful coloring, due to the fact that no artificial coloring is used but only such tints as Mother Nature provides from her inexhaustible storehouse of minerals. The Red, Green, Blue-Black, White and Golden Buff of NU-TILE Asphalt Shingles, and the Sea Green, Tile Red Blend, Golden Buff, Purple-Bronze and Violet of NU-TILE Tapestry Shingles are obtained without the use of dyes or chemicals of any kind, by using selected rocks, gravel and vitrified tile and porcelain which give the colors desired, either when used singly or in combination with materials of a different color.

Made in Several Forms and Various Colors

NU-TILE Asphalt Shingles are made in the following forms and colors:

Extra Heavy—10⅔x14″—Individuals. Colors: Red, Green and Blue-Black. Laid 5″ to weather. Weight 290 lbs. per square.

Standard—8x12½″ — Individuals. Colors: Red, Green, Blue-Black and White. Weight about 240 lbs. per square.

4-in-1—10″ Shingles. Colors: Red, Green, Blue-Black, White and Golden Buff and Tapestry. Weight about 190 lbs. per square.

4-in-1—12½″ Shingles. Colors: Red, Green, Blue-Black, White and Golden Buff and Tapestry. Weight about 240 lbs. per square.

3-in-1—Extra Heavy. Colors: Red, Green, Blue-Black and Golden Buff and Tapestry. Weight about 255 lbs. per square.

Write for Price List

IN-LADE Roll Roofing

We make a great variety of other styles of Asphalt Roofing, including IN-LADE Roll Roofing in Square Shingle, Cut Shingle and Reversible Designs; Arc Brand Roofing in Sno-Tile (White Roofing) Golden Buff, Red, Green and Blue-Black; Amco Rubberlike Roofing and Parfex Rubberlike Roofing (both smooth finish); and other brands. Write for our complete listing of roofing materials.

NU-TILE TAPESTRY SHINGLES

The Durable Roof Beautiful

NU-TILE Tapestry Shingles (illustrated on opposite page) are the last word in artistic roof coverings.

After years of intensive research and experiment, we are now producing not only wonderfully artistic effects, but, as a result of exhaustive tests, a wearing quality unequalled anywhere. Through actual use on the roof, we have demonstrated emphatically the *durability and beauty* of our NU-TILE Tapestry Shingle. Scientifically treated granules, carefully weighed and blended before being spread upon the mastic with which we surface our shingles, create that *artistic and permanent workmanship* so keenly appreciated by home builders.

All the mineral grits used by us in producing our vari-colored effects have been tested for many years by actual exposure on roofs. It is this superiority in texture, both as to durability in wear and permanence in colors that has given our Asphalt Shingles their tremendous popularity. While very good roof results may be secured through the use of the combinations in fixed design, it has been found that the most artistic effects are to be obtained through the avoidance of any definite plan or pattern in putting on our shingles.

Samples on Request

You will never appreciate the full beauty of NU-TILE Asphalt Shingles, or NU-TILE Tapestry Shingles until you have seen them with your own eyes. Let us know what particular type of shingle you are interested in and we will gladly send samples.

NU-TILE TAPESTRY SHINGLES

The Durable Roof Beautiful



GOLDEN BRONZE—Note the rich, subdued tone achieved by the use of our Golden Buff and Purple Bronze NU-TILE Tapestry Shingles. It is an interesting effect which harmonizes very well indeed with the architecture of almost any home it is made to adorn.



TRI-COLOR—An excellent effect of a rich mass of color is obtained in the above picture. Our Tile Red, Golden Buff and Sea Green Asphalt Shingles so laid on bring out strikingly the splendid adaptability of the NU-TILE Tapestry Shingle.



GREEN GOLD—Artistic simplicity is at once seen in this hit-or-miss arrangement of our Golden Buff and Sea Green NU-TILE Tapestry Shingles. This fine two-color blend in our *Durable Roof Beautiful* lends itself to enhanced dignity in the residence.



HEATHER BLOOM—Here is a soft, weathered effect which is obtained by the combined use of our Violet and Sea Green. It has invariably become popular, acting as a harmonious climax for homes where the pastel shades have been followed for the exterior trim.

For further details and literature, write to: **AMALGAMATED ROOFING COMPANY, CHICAGO.**

ETERNIT ASBESTOS SHINGLES

Manufactured by

AMERICAN INSULATION COMPANY

Roberts Avenue & Stokley Street

Philadelphia

Eternit

ASBESTOS SHINGLES



Products

ETERNIT ASBESTOS SHINGLES — An absolutely fire-proof and practically indestructible roofing shingle made of Portland Cement and asbestos fibre, adaptable to all kinds of building construction where shingle roofing or siding is required from farm buildings, barns, garages, etc. to the finest residences.

ETERNIT ASBESTOS LUMBER is made of the same materials as the shingles but furnished in large sheets. Adaptable for either interior or exterior construction work and particularly for siding, partitions, etc. It is a non-conductor of electricity and, therefore, useful in construction work where insulation is necessary.

Materials and Construction

ETERNIT ASBESTOS SHINGLES are "built up" from the best grade of Portland Cement and South African Asbestos Fibre. Authorities agree that this particular fibre is the best for shingle construction on account of its exceptional length and exceeding toughness. It is also talc-free which permits the cement to adhere more closely to it.

Layer upon layer of close-knit, interwoven fibres that mat into a perfect framework of reinforcement are formed by ingenious machines. The fibres are thoroughly impregnated with Portland Cement and then subjected to tremendous hydraulic pressure which welds the clinging, cement-surrounded fibres into a solid, stone-like, impenetrable mass—stone that is given hardness and body by the cement, and is reinforced and given non-chipping, non-cracking resiliency by its twisted layers of long, tough, sinewy asbestos fibres. These laminated shingles are much stronger than the ordinary moulded shingle.

Thoroughly Seasoned

Then follows a seasoning period of several months which insures a shingle that will lie flat under all conditions and that will not develop defects after they are on the roof. Shipments are made in crates to avoid damage to the shingles or lumber while in transit.

Advantages

ETERNIT ASBESTOS SHINGLES make a roof that is proof against all weather conditions and one that will stay that way. They add to the attractiveness of any building. They are positively fire-proof. There is no cost for upkeep as they require no attention when properly applied.

Frost cannot crack them nor blazing sun warp them. The insulating qualities of asbestos is a barrier against both heat and cold. Their rigidity keeps them from blowing up in the strongest wind.

Colors

All colors are solid throughout the shingle, being mixed in the material, and not merely veneered on the surface.

Colonial Gray—a bright, clean color that lends a look of neatness and cheerfulness to the whole building.

Indian Red—a soft, rich shade that harmonizes with almost any color scheme.

Quarry Blue—giving the subdued, dignified appearance of natural slate.

Autumn Brown—with its varied hues ranging from a bright copper to a deep chocolate, giving the beauty of an Autumn landscape and the richness of a fine tapestry.

Green—a beautiful and popular color.

Styles and Sizes

Both the American method shingles which are laid straight in a manner similar to natural slate, and the French method shingles which are laid diagonally —honeycomb effect—are furnished in two sizes.

(See illustration on opposite page.)

For Re-Roofing

ETERNIT Shingles can be laid economically and conveniently right over old shingles, which does away with the expense and litter of removing the old roof. The double thickness of ETERNIT and wooden shingles gives added protection against heat and cold. Because ETERNIT Shingles are rigid and sturdy they lie flat and tight over the inequalities of an old roof, making a smooth, new surface that gives everlasting weather-tight protection.

How to Apply

Preparation of roof: Sheathing boards should be dry and well seasoned.

Surface smooth and free from projecting nail heads.

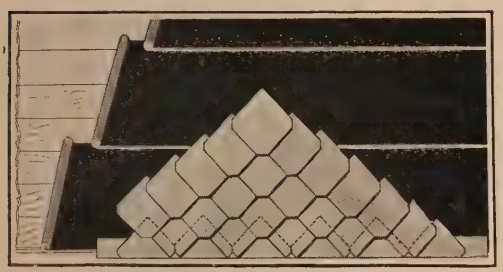
Apply 1 in. x 2 in. furring strip with 1 in. face up along hip and ridges.

Hip strips shall overhang gutter facia 1 in.

Lay ¼-in. x ½-in. lath as a cant strip along edge of roof boards at eaves.

Cover sheathing with asphalt saturated asbestos felt weighing 14 lbs. per square. Leave 4-in. horizontal laps and 12-in. laps at hips and ridge.





The French Method Shingle

French Method

Draw horizontal chalk line 3 in. up roof parallel with eaves. Apply 4 in. x 16 in. starters with upper edge resting on chalk line and lower edge projecting 1 in. below roof board.

Draw vertical center line from eave to ridge. Apply triangular second starter on each side of this center line with lower edge flush with lower edge of first starter which it entirely covers. Insert copper storm nail with shank upstanding through hole formed by notches in sides of triangular starters. Apply starters in similar manner to each end of roof.

Start first course of shingles by laying a full shingle at center line so that the hole in the lower corner receives upstanding shank of copper nail and top corner rests on center line. Fasten shingle with nails through the other two holes, so that shingle rests firmly, but not too tightly, on preceding course. Proceed towards end of roof inserting copper storm nails as in case of starters. Nail holes are arranged to insure proper lap and help alignment. Shingle is laid so that diagonal lines are on a 40-degree angle with the eaves. Press lower corner of each shingle down firmly and bend shank of copper nail downward. Proceed with application of full sized shingles on balance of roof.

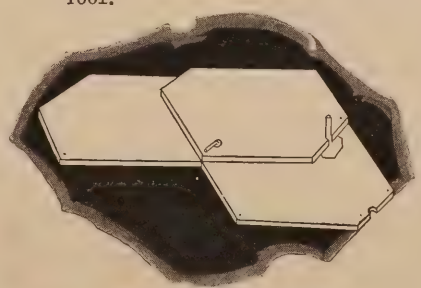
Where dormers occur, care must be taken to insure perfect alignment of courses on each side so that intersection of course above dormers will be perfect. To insure this, draw a chalk line parallel to eaves above top of dormer. After applying each two or three courses alongside of dormer measure the distance from the lower points of last course laid to the gauge line. The distance on each side of dormer must be equal.

Importance of Nails

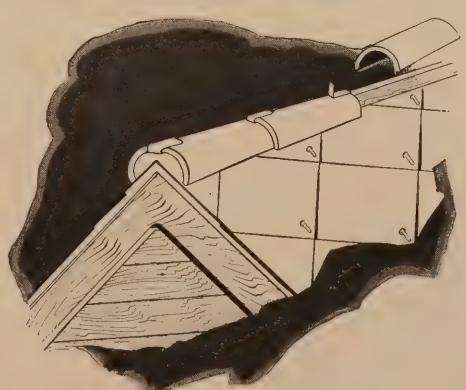
As soon as the nails are gone, the finest shingles are wasted.

Common iron nails should never be used as they rust away rapidly.

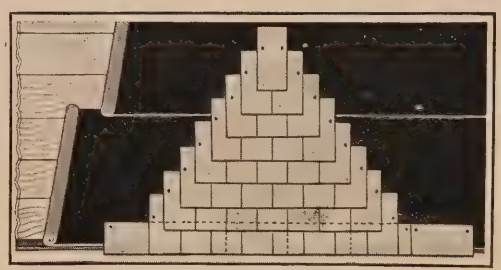
Galvanized nails have better rust-resisting qualities but copper nails are best because they are absolutely r u s t - p r o o f. While copper nails cost a little more, they are more than worth the difference because they add years to the life of a roof.



Use of Copper Tie Nails



Application of Ridge Roll



The American Method Shingle

American Method

Lay one course of shingles horizontally along eave, with lower edge overhanging 1 in. below roof boards. Apply first course of shingles for main body of roof, arranging shingles vertically with lower edge flush with lower edge of starting course which is entirely covered. Break all joints. Proceed as with slate, exposing 7 in. to the weather and fasten shingles firmly but not too tightly with two nails in each shingle. Where the special ¼-in. thick shingle is used expose 8 in. to weather instead of 7 in.

Ridges and Hips

This is the last operation in finishing the roof. On the ridge start at end of building away from quarter where severest storms usually come. On dormers work from face back toward main roof. On hips start at lower end. Ridge is shaped so that larger end of piece being applied fits over smaller end of preceding piece. Nail a copper ridge roll clip at smaller end of each piece, driving nails through into ridge pole. Larger end of next piece sets over this clip as far as upright strip, which is bent back over succeeding piece to hold it in place. Each piece of ridge pole is nailed fast at smaller upper end and held by clip at larger lower end. To close end of ridge pole cut a piece of shingle exact shape of open end and nail it to end of ridge pole. The Boston hip made of shingles is sometimes used instead of ridge pole. This is similar to method of covering hips with natural slate.

For further details and literature, write to: **AMERICAN INSULATION COMPANY** Roberts Avenue & Stokley Street Philadelphia, Pa.

ROOFING MATERIALS

MANUFACTURED BY

The Beaver Products Company, Inc.

THOROLD, ONT. BUFFALO, N. Y. LONDON, ENG.

MILLS: Albany, N. Y.; Chicago, Ill.; Kansas City, Mo.; Anderson, Ind.; Ottawa, Ont.

SALES OFFICES: Buffalo — New York — Chicago — Atlanta — Minneapolis

PRODUCTS—for ROOFS

Vulcanite Slate-Surfaced Shingles — The original Hexagon Slab Shingles; The Special Self Spacing Individual Shingle; The Vulcanite 4 in 1 Slab Shingle. All finished in standard colors—red, green and blue black and in the beautiful Autumn Blend colors.

Vulcanite Roll Roofings—Smooth Surfaced; Slate Surfaced, plain and mosaic.

For other Beaver Products—for WALLS, see pages 120-21.

Special Slate Surfaced Shingles.

Vulcanite is known as the pioneer in the development of scientifically designed slate surfaced shingles. Distinctive beauty of design and coloring, their record for unusual durability, their quick automatic spacing, and all round economy make their use ideal on the finest of homes. Besides these special shingles, Vulcanite makes standard designs as well, all of Vulcanite quality and workmanship.

The Original Hexagon Slab Shingle



More than eight years ago, Vulcanite introduced the *original* Hexagon Slab. Now it's a most popular style. Home owners were quick to appreciate its distinctive pattern. Soon, they found it built a better roof, that it sealed it tighter against the worst ravages of weather and storm. Every year proved its durability—its lasting beauty. But there is only one *original* Hexagon Slab — still only one with its built-in quality of material and features of design — made famous by Beaver Vulcanite. And you an easily prove for yourself that this shingle builds a better, a more economical, a more attractive roof. Test and compare this most widely imitated shingle and see the difference for yourself.



THE BEAUTIFUL VARIEGATED EFFECT OF THE HEXAGON AUTUMN BLEND



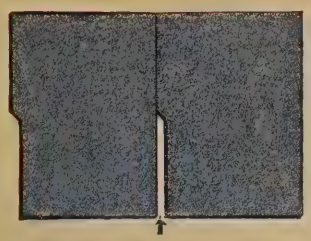
Check These Distinctive Features of Design and Protection

Note how this slab locks into the next one, spacing automatically, fitting more accurately, making a tighter seal and laying faster. See the effect on the roof and from the ground of its correctly proportioned hexagonal pattern, with its heavy cast shadows and soft tones of evenly imbedded crushed slate. Check the overlap and water shed of from 4½" to 8½" of the original with those that build a similar design. Take notice that it gives a double thickness of tightly nailed material over the whole roof and triple thickness covering 50% of the roof area. It's more than weather proof and successfully withstands the 6 daring roofing tests explained on the next page. You need but test and compare to see the difference.

Specifications: 36 in. long by 12¾ in. wide, to lay 4 3/16 to the weather. Two weights Standard—approximately 200 lbs. to the square, packed two bundles of 48 shingles each, surfaced in standard colors and the beautiful Autumn Blend. Jumbo — approximately 270 lbs, to the square, packed in three bundles of 32 shingles each, surfaced in same colors as standard weight.

Beaver Vulcanite Roofings — continued

SELF SPACING SHINGLES



The Special Shoulder Seals the Slots

There's all the difference in the world between the Vulcanite Self Spacing and any other individual shingle made. The special shoulder builds a double thick, completely sealed roof, making it impossible for weather to work into the roof boards. It makes spacing automatic, assuring a perfect roof pattern. Successfully withstands the attacks of fire and weather. Add to these advantages, the superior quality of the shingle itself and you have the reason for the exceptional protection and longer life of the Vulcanite Self Spacing Shingle. The standard size is 8½x12¾ and it is supplied 102 shingles to the bundle, 4 bundles to the square, weight 240 lbs. It is supplied surfaced in either red, green or blue crushed slate.

Jumbo Size and Weight

The new jumbo size and weight added to the many special advantages of the Vulcanite Self Spacing provides a super shingle that cannot help but gain your praise. This new husky shingle measures 11" x 15", means less shingles to lay, gives less joints and a better looking pattern from the ground. And it is thicker, tougher and heavier, too. See this extraordinary shingle before you purchase any roofing.

The Beautiful Autumn Blend

As to beauty, no roof approaches the natural effect of the Vulcanite Self Spacing Autumn Blend Shingle. It gives a roof of softly blended, glowing color. Each shingle is surfaced with a remarkable blending of vari-colored crushed slate and there is an absence of checkerboard effect. This shingle, made only in jumbo size and weight will permanently beautify the home at but little more cost than for shingles of standard colors. See for yourself its real beauty and worthwhile advantages.

ROLL ROOFINGS

Vulcanite Roll Roofings are made in various weights and styles to meet your every roofing need. All are made of pure rag felt protected with the finest of asphalt. Surfaced in either natural color crushed slate, sand, mica or talc. Put up in standard width rolls of 36 inches and in a single strip of 36 feet, sufficient material to cover 100 square feet of roof surface. Galvanized nails and cement included in each roll. Where all round wear and economy are essential, use Vulcanite Roll Roofings.

6 Daring Roofing Tests

Prove Superior Quality of All Vulcanite Roofings

Years on roofs have proved the worth of Vulcanite Roofings. And you can quickly prove for yourself that it will more than stand the tests of actual use. You know exactly what it will do under all conditions—year in and year out. Put a sample to these daring tests:

Twist it—bend it. Throw it on the floor—scuff it. Lay it on ice—pour boiling water over it. Lay it on a hot radiator. Soak it in water. Put burning embers on it.

There's extra measure of built in quality in all Beaver Vulcanite Roofings. Test your roofing before you buy and know for sure just what kind of a roof your home will have. Samples furnished free for testing.

Life Size Samples and Booklets Free

Without obligation to you, we will gladly send you life size samples of either of the special Vulcanite shingles mentioned on these pages. Once in your hands you'll readily appreciate the claims we make for them and you can easily prove their true value. We'll gladly send you booklets in color, giving more detailed information and descriptions of the complete Vulcanite Roofing products we manufacture.



"AMBLER ASBESTOS SHINGLES"

THE "LAST FOREVER" ROOF COVERING

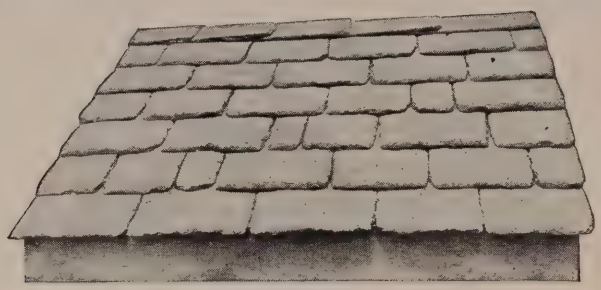
Made by

ASBESTOS SHINGLE SLATE & SHEATHING COMPANY,

AMBLER, PENNSYLVANIA

Branch Offices:—Baltimore, Boston, Buffalo, Chicago, Cincinnati, Detroit, Cleveland, Minneapolis, New York, Omaha, Philadelphia, Pittsburgh, Washington, Wilkes-Barre; Havana, Cuba.
Southwestern Distributor:—R. V. Aycock Co., Kansas City, St. Louis, Tulsa, Houston; Dixie Asbestos Co., Birmingham, Ala.
California Representative—J. A. Drummond, Los Angeles, San Francisco.
Colorado Representative—Mountain States Machinery Company, Denver.
Louisiana Representative—Messrs. J. T. Mann & Company, New Orleans.
H. G. Speary & Company, Utah, Idaho, Nevada and Washington Representative; Offices—Globe, Ariz., Salt Lake City and Seattle.
F. T. Crowe & Company, Washington Representative Offices—Seattle and Tacoma.
Berry Asbestos Co., Atlanta, Ga.
Other distributors throughout the country.

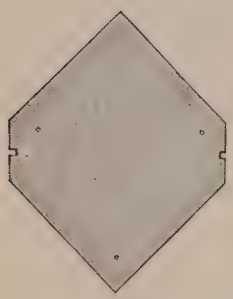
ENGLISH THATCH OR ROUGH AMBLER TAPERED ASBESTOS SHINGLES



"They Are Very Good Looking"

SIZES

Random widths 6 to 14 inches by 20 inches long, ½-inch thick at butt. Also furnished in Colonial, or smooth type. Same widths as above, but 18 inches long.



French



Honeycomb

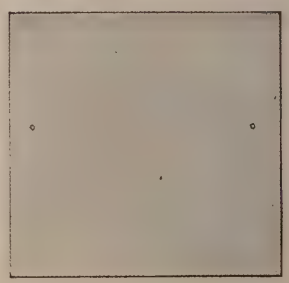
These types of shingles are for laying French (diagonal) or Honeycomb roofs. (*Illustrated below.*)

Write for copy of our complete catalog and price list, which is a real text book on the art of roofing.

Ambler Asbestos Shingles once laid last forever and require neither paint nor repairs.

Made in all needed shapes and sizes and in an attractive range of non-fading colors.

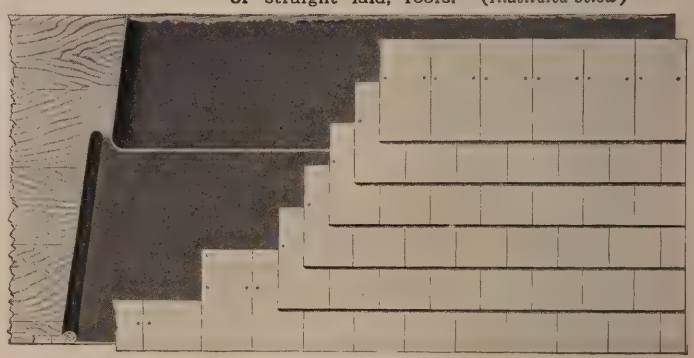




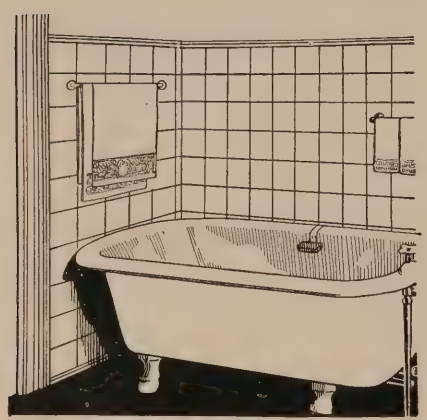
Rectangular

These types of shingles are for American, or straight laid, roofs. (*Illustrated below*)





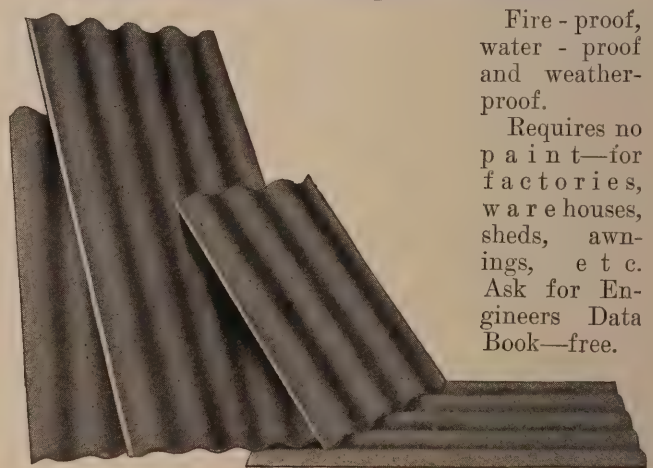
Linabestos



Press scored Linabestos. The ideal fire-proof and water-proof lining for kitchens, bathrooms, etc.

Not expensive, can be enameled to represent tile.

Ambler Asbestos Corrugated Sheathing



Fire-proof, water-proof and weather-proof.

Requires no paint—for factories, warehouses, sheds, awnings, etc. Ask for Engineers Data Book—free.

For further details and literature, write to: **Asbestos Shingle Slate & Sheathing Company, Ambler, Pa.**

Winthrop Tapered Asphalt Shingles

Manufactured by

BECKMAN-DAWSON ROOFING CO.,

111 West Jackson Boulevard, Chicago, Ill.
Factories at Argo, Ill., and Detroit, Mich.

Winthrops are the only tapered asphalt shingles made. Because of their distinctive features, Winthrops are specified by the architects of many fine homes. Because of their economy. Winthrops are selected, too, for small homes. There is nothing better for the mansion, nothing more basically economical for the cottage.



It's the Taper

Winthrops are recognized by the profession and trade for the quality of the materials used in them, but it's the taper—the thick butts—that set Winthrops apart from all other asphalt shingles.

The thick butts lie flat and snug against the roofing sheathing. Winthrops are tight against sifting snow and driving rain.

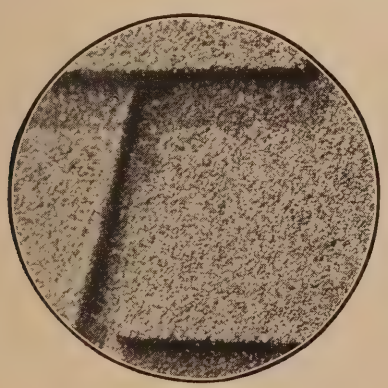
Winthrops do not curl or warp. They can not rot, rust, crack, nor split.

The thick butts, built up of extra coats of everlasting asphalt on both sides of the heavy felt core double the wearing thickness where wear comes—on the portion exposed to the weather.

Not only do Winthrops give lasting protection against weather but they are a protection against fires caused by sparks and blazing brands falling upon a roof. The fire underwriters approve them.

Winthrop Beauty

The beauty of a roof of Winthrops is in part due to the same thick butts. They cast the shadow lines that made the wooden shingle roofs so attractive. This illustration shows the actual shadow lines.



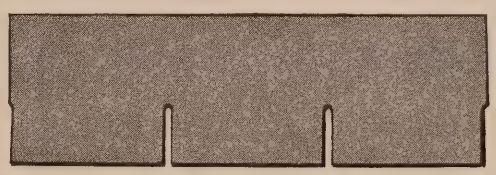
Winthrop colors are permanent. They are due to the non-fading crushed slate, deeply anchored into the asphalt for a surface of lasting beauty.

There's a variety of colors. Blue black, sea green, tile red, golden buff are extremely popular, laid solid or in mottled effect.

For beauty, for wear, for protection, use and recommend Winthrops.

Sizes and Styles

The standard Winthrop Tapered Asphalt Shingle is 10 by 13½ inches and is laid 4½ or 5 inches to the weather. They are supplied in bundles, ¼ square to a bundle. Though they have the thick butts—just about double the thickness of ordinary shingles—a Winthrop roof exceeds but slightly the weight of a roof of ordinary giant shingles. The taper puts the thickness where the wear comes.



Winthrops are made also in 3-in-1 strip form, in one length, 32 inches, but in two widths, 10 and 12 inches. The 10 inch shingles generally are laid 4 inches to the weather, the 12 inch are laid 5. The slots are five inches deep and three-fourths of an inch wide.

In solid colored roofs there's a speed advantage in the Winthrop 3-in-1, which is the same shingle so far as quality is concerned as the individual. The strips are laid with fewer nails, without chalk lines, and they space automatically. The strips are packed three bundles to a square.

Roll Roofing

We manufacture also an excellent slate surfaced roll roofing in standard weight or extra heavy. This roll roofing is in plain colors or in printed designs to give a shingled appearance.

Samples Upon Request

Although most good lumber yards carry Winthrop Tapered Asphalt Shingles, we should like to send a full sized sample and complete, illustrated literature to any home building contractor. In writing please specify the style of shingle and color you wish.

If you do not know Winthrops take this opportunity to see their beauty and quality. They have the beauty. They have the quality. They have also these distinguishing features—the taper and this trade mark.

the Big Butt Shingle

Winthrop
Tapered Asphalt Shingles

For further details and literature, write to: **Beckman-Dawson Roofing Company** 850 F. C. Austin Bldg., 111 W. Jackson Boul., Chicago.

Neponset Roofings, Building Papers and Wall Board

Manufactured by

BIRD & SON, inc.

Chicago Office and Plant
1472 West 76th Street

Mills and General Offices
EAST WALPOLE, MASS.

New York Office
295 Fifth Ave.

BIRD & SON, LTD., HAMILTON, ONT.

Products

Bird's Neponset Twin Shingles, Bird's Super Twin Shingles, Paroid Roofing, Neponset Board, Neponset Black Building Paper.

Experience and Facilities

BIRD & SON, inc., was established in 1795, and after years of experience in the manufacture of paper, the company was one of the pioneers in turning its efforts to the manufacture of waterproof building paper and felt roofing.

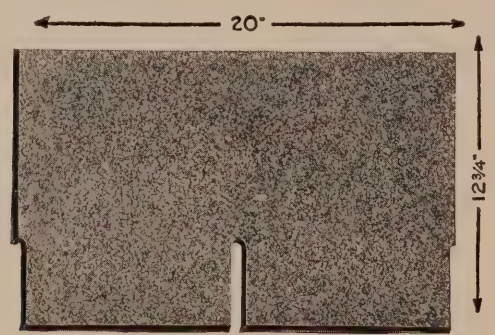
The highest quality of materials is maintained through the most up-to-date machinery and methods and a highly efficient personnel. The several mills of the company provide for prompt shipment anywhere.

Bird's products have been distributed and applied to buildings of every description throughout the world and have long been known to be of the highest grade.

Neponset Twin Shingles

Neponset Twin Shingles are extra high grade. The depth of 12¾ inches gives three full layers of coverage with ¾-inch overreach to catch the nailing of the second higher course. The arched cut-out (a distinctive Bird feature), prevents tearing at the point of nailing.

Weight, a full 260 pounds per square, packed in 3 bundles of 60 shingles each. Red, green and blue-black slate surfacing. Should be applied over roof boards laid close together, sheathed with Neponset Black Building Paper; roofer to follow instructions enclosed in each bundle of shingles. Also recommended for application over old wooden shingles.



Neponset Twin Shingle

Bird's Super Twin Shingles

A 5-in. cutout makes them particularly adaptable for application over old wooden shingles. They are an extra heavy twin shingle combining the features of Neponset Twins with extra weight and massive appearance. 12¾ in. x 20 in.

May be laid 4 inches to the weather giving, three thicknesses of coverage, or may be laid 5 inches to the weather for a particularly heavy and massive appearance. The cut-out is 5 inches deep. They are packed 36 shingles to the bundle; 5 bundles to the square, weighing about 325 pounds when laid 4 inches to the weather. If laid 5 inches to the weather, 4 bundles weighing about 260 pounds will cover one square.

Bird's Art Blende Twin Shingles

Bird's Art Blende Twin Shingles are made in the same sizes and weights as Neponset and Super-Twins, but instead of being plain colors they combine a red, buff and purple in an artistic blend that goes well with practically any type of building. They well may be known as "The Crowning Glory of the Home."

Paroid Roll Roofing

Paroid Roll Roofing is of the highest quality, with a special Talc surfacing of bright gray color. It comes in rolls of either 108 or 216 square feet, with lap cement and nails. Made in two weights—55 pounds and 65 pounds per square. Roofer should apply according to directions in each roll.

Neponset Black Building Paper

Neponset Black Building Paper has been known and specified by architects for years as a waterproof building paper of the highest grade. A strong bodied paper thoroughly saturated with asphalt, protected with asphaltic coating on both sides, giving an absolutely waterproof paper. Recommended particularly for use:

1. Under all kinds of roofing.
2. Behind clapboards and shingles or stucco on the walls of buildings.
3. Between floors.
4. Between double floors that extend over an open porch.
5. Within walls of house, store or factory in place of back plaster.
6. For cellar lining.
7. For cold storage work.

Put up in rolls 36 inches wide containing 500 square feet, weighing 50 pounds per roll.

Specifications.—(For use of Bird's Neponset Black Waterproof Building Paper.)

Beneath Clapboards and Shingles.—Underneath the clapboards or shingles shall be applied 1 layer of Bird's Neponset Black Waterproof Building Paper, lapped not less than 2 in. and tacked to hold in place.

Beneath Roofing.—Underneath the roofing, 1 layer of Bird's Neponset Black Waterproof Building Paper shall be applied; paper to be lapped not less than 2 in. and tacked along the seams, sufficient to hold in place.

Back of Stucco.—Over the sheathing boards 1 layer of Bird's Neponset Black Waterproof Building Paper lapped not less than 2 in. Hold paper in place with furring strips spaced about 16 in. on center. Nail metal lath firmly to furring strips and apply stucco to the lath.

Beneath Double Floors.—Between the double floors or underneath the parquetry shall be placed 1 layer of Bird's Neponset Black Building Paper. Paper to be lapped not less than 2 in. and tacked sufficiently to hold in place.

Lockport Winthrop Tapered Asphalt Shingles

The Big Butt Shingle

Made by

LOCKPORT PAPER COMPANY

Lockport, N. Y.

Built to Endure





Consider every feature any Asphalt Shingle has—you will find them all in Lockport Winthrop Tapered Asphalt Shingles.

Then add the big factors found in no other shingles—the Wedge Shape and the Big Butt.

Other Features

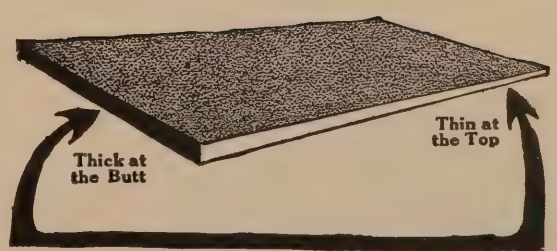
Shaped like a Wood Shingle.

Owing to shape must necessarily lie flat.

Half again the thickness at the butt of any other shingle of the same weight.

All the extra weight where it belongs —at the butt end.

To attain the thickness of the Taper in any other giant shingle it would be necessary to increase the total weight fifty per cent, thereby greatly increasing the cost without adding to the effectiveness of the shingle.



For further details and literature, write to: **LOCKPORT PAPER COMPANY, LOCKPORT, N. Y.**

Mule-Hide Asphalt Shingles and Roll Roofing

Manufactured by

THE LEHON COMPANY

West 44th Street and Oakley Ave., Chicago

SALES OFFICES

New York, N. Y., 60 Broadway
St. Louis, Mo., Wiles-Chipman Lbr. Co.
Los Angeles, Cal., 138 E. Avenue 54
Omaha, Nebr., Sunderland Bros. Co.
Minneapolis, Minn., Colonial Warehouse Co.

Products

ASPHALT SHINGLES; ROLL ROOFINGS; BUILT-UP ASPHALT ROOFING; ASPHALT ROOF COATINGS; ROOF PUTTY.

Also manufacturers of Mule-Hide Asphalt Felt; Waterproofing Membranes, Fabric and Burlap; Waterproofing Asphalt and Compound; Canvas Top Porch and Deck Roofing; Waterproof Insulating Paper; Waterproof Building Papers; Asphalt Metal Paint; Plastic Cement; Dampproofing-Paint.



Trade-Mark

Mule-Hide Asphalt Shingles

Mule-Hide Giant Double Thick Individual Shingle—Suitable for high class city or country residences. This is one of the heaviest individual type shingles made. Because it is thicker and heavier, it casts a deep shadow, giving the roof a pleasing two-toned effect. This shingle, like all Mule-Hide shingles, is made with long fibred all-rag felt and genuine Mexican asphalt, and it is surfaced with non-fading, natural crushed slate, all of which assure longer wear.

Estimated Wear—Twenty years or longer.

Specifications—Surfacing—Richly colored, natural slate in red, green or blue-black; also manufactured in the beautiful rainbow effect surfacing. *Size*—10x15 in., 274 shingles to the square (100 sq. ft.) sufficient to lay 5 in. to the weather. *Weight*—285 lbs.; 3 bundles per square.

Mule-Hide Standard Individual Shingle—Made same as Mule-Hide Giant double thick shingle but lighter in weight and smaller in size; a popular shingle for medium priced homes; equally desirable for laying over old shingles, or new buildings.

Estimated Wear—Fifteen years or longer.

Specifications—Surfacing—Non-fading, natural crushed slate in red, green or blue-black. *Size*—8x12¾in., 424 shingles to the square (100 sq. ft.); sufficient to lay 4 in. to the weather. *Weight*—244 lbs.

Mule-Hide Giant Double Thick 3-unit Shingle—This massive thicker shingle is the heaviest unit type manufactured. Wherever a longer wearing roof is required, this or the Mule-Hide Giant double thick individual shingle should be specified. The pleasing pronounced shadow line produced by this extra heaviness and extra thickness, enhances the beauty of the roof.



Roll Roofing

Only 90 of these 3-unit type shingles are required for 100 sq. ft. of roof surface. This advantage of fewer shingles means lower labor cost added to the material saving of nails. Self-spacing.

Estimated Wear—Twenty years or longer.

Specifications—Surfacing—Richly colored, natural slate in red, green or blue-black; also manufactured in the beautiful rainbow effect surfacing. *Size*—12x32 in., packed 90 strips to the square (100 sq. ft.); sufficient to lay 5 in. to the weather. *Weight*—260 lbs.

Mule-Hide Super 4-unit Shingle—A popular and practical shingle, economical to lay, requiring fewer nails, less handling than the individual type shingle. Gives 2½-in. thickness over entire roof. This shingle is larger than the 3-unit double thick shingle, but is made lighter and is cut to lay 4 in. to the weather.

Estimated Wear—Eighteen years or longer.

Specifications—Surfacing—Natural crushed slate in red, green, blue-black or golden brown; also made in the beautiful rainbow effect surfacing. *Size*—12¾x36 in., 100 strips to the square; laid 4 in. to the weather. *Weight*—245 lbs.

Mule-Hide Standard 4-unit Shingle—Generally used in lower priced dwellings, but may be used in any type of city or country residence. Contractors find this shingle easy to handle and economical to apply. It is our lowest priced Unit Type shingle, but made of same high grade materials as used in all Mule-Hide products.

Estimated Wear—Fifteen years or longer.

Specifications—Surfacing—Natural crushed slate in red, green, blue-black and golden brown, also made in the beautiful rainbow effect surfacing. *Size*—10x36 in., 100 strips per square; laid 4 in. to the weather. *Weight*—200 lbs.

The Mule-Hide Rainbow Shingle

The same soft blended tapestry color effect, which for many years has been sought by architects and which has heretofore been obtainable only with expensive Bangor slate roofs, is now produced in the Mule-Hide Rainbow roof. In it is presented a soft and beautiful wealth of delightful color hues that intensify in beauty as they grow older. This pleasing natural rainbow effect is secured through the skillful blending of rich non-fading crushed slate and minerals. It may be had in the following types of Mule-Hide shingles: Double thick individual shingle, Giant double thick 3-unit shingle, Super 4-unit shingle and Standard 4-unit shingle.

Roll Roofings

Mule-Hide Smooth Finish Roll Roofing "Famed for Its Toughness"—No other smooth asphalt roofing offers such "toughness" and durability as does the original Mule-Hide product. Made in medium, heavy and extra heavy weights.

The quantity of asphalt saturation in Mule-Hide is an index of the wear of that quality—obviously the heavier the weight of saturation the longer wear that Mule-Hide insures.

Estimated Wear—Medium weight, ten years or more. Heavy weight, twelve years or more. Extra heavy weight, fourteen years or more.

Specifications—Made in rolls containing 108 sq. ft. (allowing for overlap). Rolls are 36 in. wide, weighing as follows: medium, 45 lbs.; heavy, 55 lbs.; extra heavy, 65 lbs. per square. Directions for applying, together with cement and special large size galvanized nails, are packed in each roll.

Mule-Hide Slate Kote Roll Roofing—Used on same types of buildings as the smooth finish roll roofing. The outstanding advantage is the slate surfacing in the various natural red, green and blue-black colors.

Estimated Wear—Heavy weight, ten years or more. Extra heavy weight, twelve years or more.

Specifications—*Surfaced* with natural red, green or blue-black slate. *Weight*: heavy, 92½ lbs.; extra heavy, 107½ lbs. per square. Rolls 36 in. wide containing 108 sq. ft. Packed complete with directions, nails and cement.

Roof Coatings

Mule-Hide Asphalt Roof Coating—Mule-Hide Asphalt Roof Coating is made of genuine Mexican asphalt, gilsonite, dissolved in high grade solvent and combined with vegetable oils. Restores the partially dried out composition roof, restores the elasticity that has been lost through evaporation. Used at 4 or 5-year intervals will make a roof practically last forever. To be applied with 3-knot brush, coating capacity 100 sq. ft. to every gallon can. Where the roof has pinholes or leaks through fine cracks, use

Mule-Hide Asbestos Fiber Roof Coating—This is the same product as Mule-Hide Asphalt Roof Coating, except that the asbestos fibers it contains make a thicker coat, and when spread over the roof it fills in all small openings. Comes in 5, 10 and 50-gal. cans.

Mule-Hide Gilsonite Roof Putty—A thick mixture of Mexican asphalt, asbestos fiber, and high grade solvent. Used for flashing around chimneys, vents and sidewalks, and for small leaks or cracks on roof gutters and valleys. Applied with trowel, never dries out. Put up in household sizes as well as large packages.

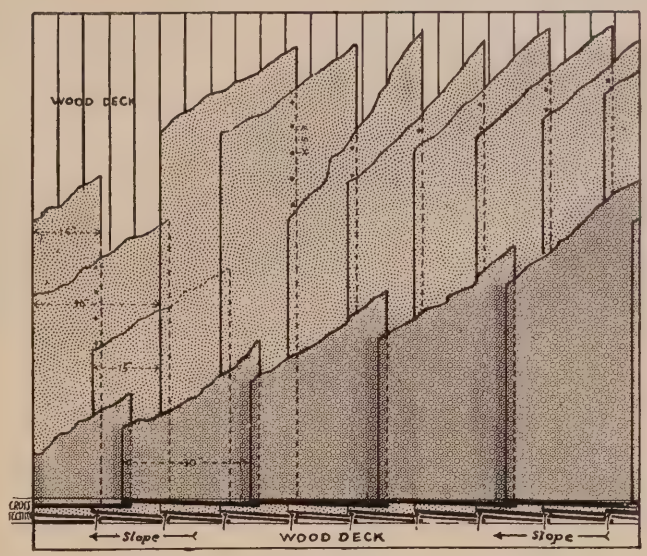
Mule-Hide Asphalt Built-up Roofs

Application of Mule-Hide built-up roofs should be such that between each layer of felt a full sheet of asphalt should be applied so that in no case does felt touch felt.

Felts should be applied by rolling into hot asphalt mopped on just ahead of roll.

Sections of roofing applied from day to day should be completed each day so that bare felts are not left exposed to the weather over night.

All Mule-Hide built-up asphalt roofing materials are labeled, showing kind, weight, etc



Method of Laying Mule-Hide Built-up Roof

HEAVY MULE-HIDE BUILT-UP ASPHALT ROOF WITH MOPPED TOP
For Application Over Wood Decks

Preparation of roof deck:	All refuse must be removed from the roof surface and the ends of each roof board must rest on rafters or purlines, properly nailed and secured. Any knot holes are to be filled or covered with metal, and the roof graded to outlets, with all drainage connections set so as to permit the free flow of water.
Materials required per 100 sq. ft.	3 layers Mule-Hide Built-Up Roof Asphalt..... 90 lbs. 216 sq. ft. Mule-Hide 15-lb. Asphalt Felt..... 32 lbs. 108 sq. ft. Mule-Hide 30-lb. Asphalt Felt..... 32 lbs. 2 pounds Mule-Hide Roofing Nails 9/16" head..... 2 lbs. Total weight per 100 square feet.....156 lbs.
How the materials are to be applied:	First—Beginning at the lowest line of roof deck, apply 30-lb. Asphalt Felt lapping each sheet 2 inches over preceding one, nailing thru the lap with large head roofing nails spaced 6 inches apart and thru the longitudinal center of each sheet spaced 12 inches apart. Second—Again starting at the lowest line of roof deck apply a 16" strip of 15-lb. Asphalt Felt by laying in a mopping on base felt. Third—Again starting at lowest line of roof deck apply a full sheet of Asphalt Felt 32 inches wide by rolling in a hot mopping of asphalt applied on 16-inch strip. Continue the application of 15-lb. asphalt felt 32 inches wide by lapping each sheet 17 inches over preceding sheet and rolling in a hot mopping of asphalt. Fourth—After the roofing has been applied as above, mop the top surface with hot Asphalt, providing a top coating of 30 pounds per 100 square feet.
Base and counter-flashings:	All fire walls, chimneys, curbs, skylights, monitors and other obstructions on the roof shall be securely flashed by turning the felt up three to six inches against the wall, over which shall be laid a 10-inch strip, with half its width on the roof. The upper edge of the strip, and the layers of Felt underneath, shall then be fastened to the wall with wooden strip nailed over the Felt. This may be counter-flashed by not less than 16-inch copper, which should be set into the wall and extend not less than four inches over the Felt when roof is finished.
Waterproofing walls or finish on flashing:	All walls, chimneys, and other projections on the roof shall be mopped sufficiently high, with hot Mule-Hide Built-Up Roof Asphalt to prevent absorption of moisture from the wash of storms, melting the snows or leakage through soft or porous brick and concrete. We especially recommend that these walls be first primed with Mule-Hide Concrete Primer to give the Asphalt a better bond.
Note:	*All work must be done in a careful, thorough, workmanlike manner and when finished, all refuse is to be removed.*

EXTRA HEAVY 5-PLY MULE-HIDE BUILT-UP ASPHALT ROOF WITH MOPPED TOP
For Application Over Wood Decks

Preparation of deck:	Same as above specifications.
Materials required per 100 sq. ft.:	4 layers Mule-Hide Built-Up Roof Asphalt.....120 lbs. 324 sq. ft. Mule-Hide 15-lb. Asphalt Felt..... 48 lbs. 180 sq. ft. Mule-Hide 30-lb. Asphalt Felt..... 32 lbs. 2 pounds Mule-Hide Roofing Nails 9/16" head..... 2 lbs. Total weight per 100 sq. ft.....202 lbs.
How materials are to be applied:	First—Beginning at the lowest line of roof deck, apply 33-lb. Asphalt Felt lapping each sheet 2 inches over preceding one, nailing thru the lap with large head roofing nails spaced 6 inches apart and thru the longitudinal center of each sheet spaced 12 inches apart. Second—Again starting at lowest line of roof deck, apply a strip of 15-lb. Asphalt Felt 12 inches wide by laying in a hot mopping of Asphalt applied on 33-lb. base felt. Third—Again starting at lowest line of roof deck apply 22-inch strip of 15-lb. Asphalt Felt by laying in a hot mopping of asphalt applied on 12-inch strip. Fourth—Again starting at lowest line of roof deck apply a full sheet of 15-lb. Asphalt Felt 32 inches wide by rolling in a hot mopping of Asphalt applied on 22-inch strip. Continue with application of 32-inch sheets by lapping each sheet 22 inches over preceding sheet and rolling in a hot mopping of asphalt. Fifth—After the roofing has been aplied as above, mop the top surface with hot Asphalt, providing a top coating of 30 pounds per 100 square feet.
Base and counter-flashings:	Same as above specifications.
Waterproofing walls or finish on flashings:	Same as above specifications.

For further details and literature, write to: **THE LEHON COMPANY** W. 44th St. & Oakley Ave. CHICAGO

LOGAN-LONG Shingles and Roofing

PLANTS
Franklin, Ohio
Atlanta, Georgia

Made By
THE LOGAN-LONG CO.
37 West Van Buren St., Chicago

BRANCH OFFICES
517 Dixie Terminal Bldg.
Cincinnati, Ohio
125 Sylvan Road
Atlanta, Georgia

Reputation

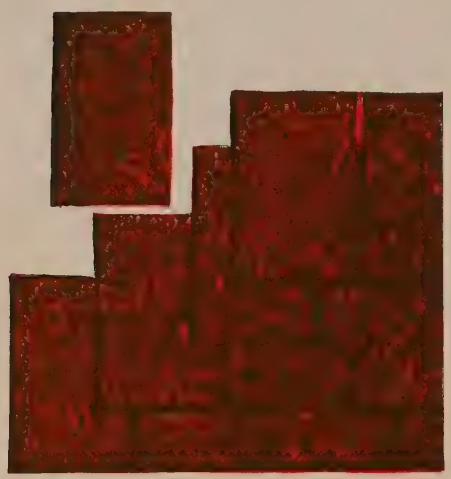
There is an iron tyranny which compels those who do good work to go on doing good work. That which is mediocre may deteriorate and no great harm be done but that which has been accorded a good reputation is forever forbidden to drop below its own best. Conscious of this fact we use every possible means of insuring that every individual shingle, or other product of our manufacture, shall be as perfect as it is possible to make it. All that experience, modern manufacturing methods and equipment, and careful inspection can do to insure a uniform product of the highest grade is done in the fabricating of TU-EL Shingles and other Logan-Long, Long Life Roofings.

Our Own Felt Mill

More than experience is required to manufacture Roofings of uniform standards and varying service capabilities. It requires in addition the facilities and equipment that give complete supervision and control of the component parts entering into the product. Logan-Long possesses both. In the ownership and operation of our own felt mill, we enjoy the advantage of being always able to obtain that grade and character of rag felt which experience has taught us serves best our purpose. No other factor is so important, since to a great extent the life and service of Asphalt Roofing depends upon the felt used as a base.

TU-EL products are what we aim they shall be because we control every step in the manufacturing process from the selection and grading of rags for the felt base to the affixing of label to the finished package.

See Opposite Page for our latest and greatest achievement— the Logan-Long Hexagons—a roof you can rave over without over-stating its merits.



Write for Information on Any of the Following Logan-Long Roofing Products

TU-EL Hexagon Shingles. Standard or Extra Heavy. In variegated colors; also in Red, Green and Blue-Black.

TU-EL Individual Shingles, 10 2-3"x14". Extra Heavy. In variegated colors; also in Red, Green and Blue-Black.

TU-EL Individual Shingles. Red, Green and Blue-Black. Standard 8"x12¾".

TU-EL Slab Shingles. Giant (3 in 1). Red, Green, Blue-Black or Variegated Colors.

TU-EL Slab Shingles. Standard 12½". Red, Green, Blue-Black or Variegated Colors.

TU-EL Slab Shingles. Standard 10". Red, Green, Blue-Black or Variegated Colors.

TU-EL Slate Roll Roofing. Standard 85-lb. Extra heavy, 110 lbs Red, Green and Blue-Black.

TU-EL Slate Strips for Ridge and Valley.

TU-EL Shingle Design Roll Roofing.

TU-EL Asphalt Roofing. Double Sanded.

TU-EL Doubleoid. Talc Smooth Surface.

TU-EL Tuf-Tex. Talc Veined Surface.

DUXBAC. Fine Talc Surface.

TU-EL House Sheathing.

TU-EL Built-up Asphalt Roofing. The best solution of the flat roof problem. Write for specifications.

TU-EL Asphalt Saturated Felt.

TU-EL Unsaturated Felt.

TU-EL Asphalt Roof Paint.

TU-EL Asphalt Lap Cement.

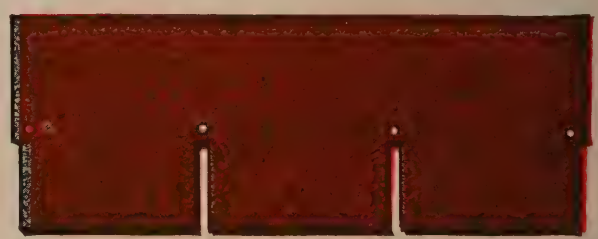
TU-EL Fibrous Coating.

TU-EL Plastic Cement.



TU-EL INDIVIDUAL SHINGLES — Standard. Size 8" x 12¾". Red, Green and Blue-Black. Extra Heavy: Red, Green, Blue Black, and variegated colors. 5" exposure. Size 10 2-3"x14", packed 63 shingles per bdl., (4 bdls. per sq.).

TU-EL SLATE ROLLS —Two weights: Standard and extra heavy. Rolls: 32" x 40½"—108 sq. ft. Color: Red, Green or Blue-Black.



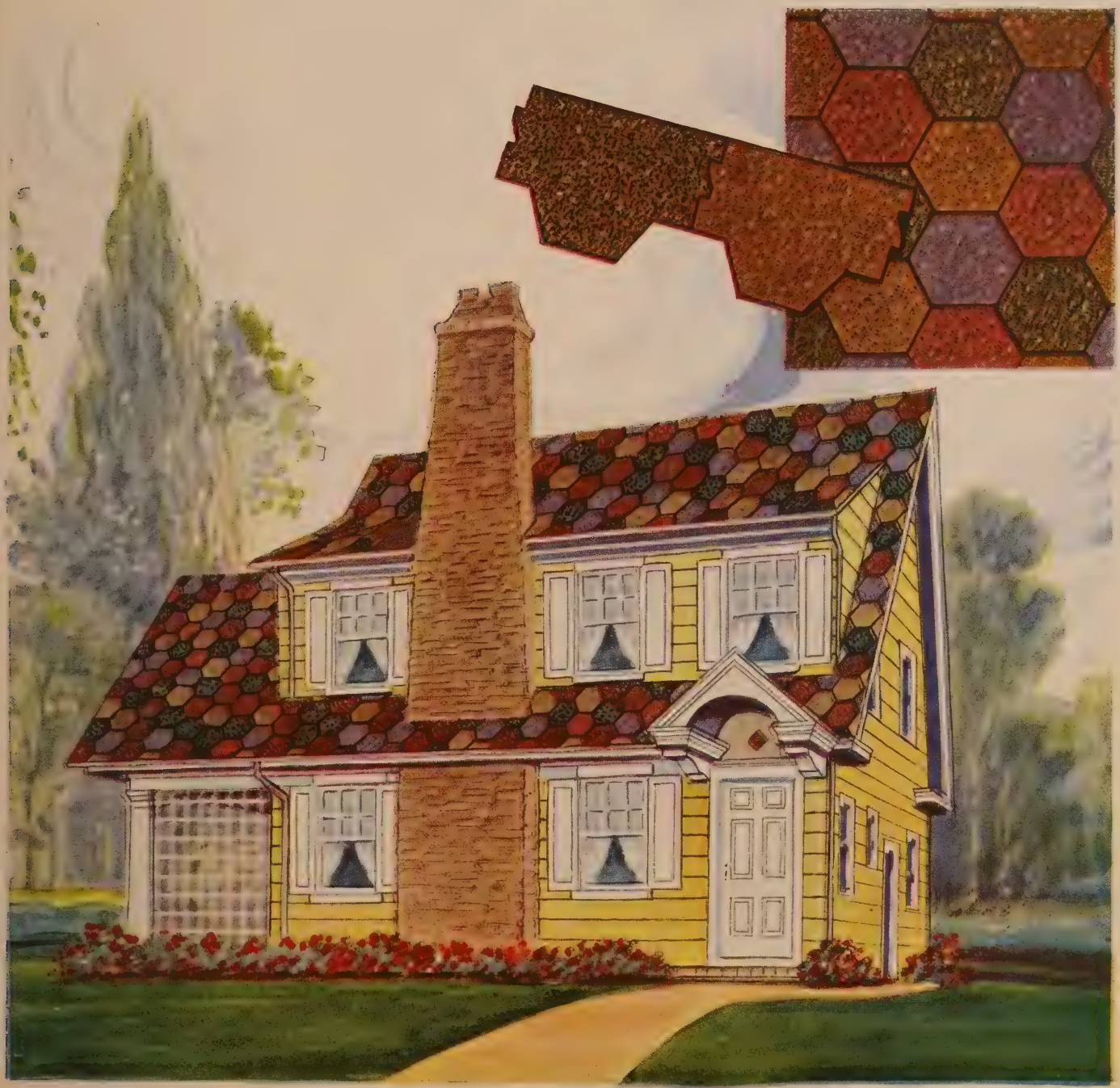


TU-EL GIANT SLABS —Extra size, weight, thickness and service. Size: 12" x 32", three bundles per square. Color: Red, Green, Blue-Black or Variegated Colors.

TU-EL SLABS—Standard weight. Built in two styles, 12½"x32", three bundles per square; 10"x32", two bundles per square. Color: Red, Green, Blue-Black or Variegated Colors.

For further details and literature, write to: **THE LOGAN-LONG CO.** 37 W. Van Buren St., CHICAGO

LOGAN-LONG HEXAGONS—"Color Harmony and Utility Unsurpassed"



This is the Age of Color!

On every hand you have proof of it—in the clothing people wear, in the bright tints of wall coverings and draperies, in the increasing use of full range brick work and colored mortar and stuccos. To be in keeping with the colorful world in which we now live the sombre roof of by-gone days must give place to one in which harmonious tints blend in a beautiful symphony of color. Logan-Long Hexagon Shingles are keyed to modern tendencies. They make the roof *part of the picture*, crowning the home with a roof of surpassing beauty.

We Want You to See the Shingle Itself

No illustration can do justice to it. Just say the word and we will gladly send you samples of the four colors in which the best of Asphalt Shingles is made. Mottled Red, Mottled Green, Blended Purple and Blended Buff. Lay them side by side and note how perfectly they harmonize. Note the extra deep head-lap of 4½ inches and the lock joint that insures accuracy of alignment, both vertical and horizontal, and seals the roof at every point against wind, rain and snow.

Specifications:

12¾″ deep by 16½″ wide. Standard Weight, approximately 205 lbs. per square—3 bundles to the square—70 shingles to the bundle. Extra Heavy Weight, approximately 280 lbs. per square—4 bundles to the square—53 shingles to the bundle. All bundles packed with wood board top and bottom and bound with wire.

For further details and literature, write to: **THE LOGAN-LONG CO.** 37 W. Van Buren St., CHICAGO

Nasco Asbestos Shingles

Made by

NATIONAL ASBESTOS SHINGLE CORPORATION

165 Broadway, New York City

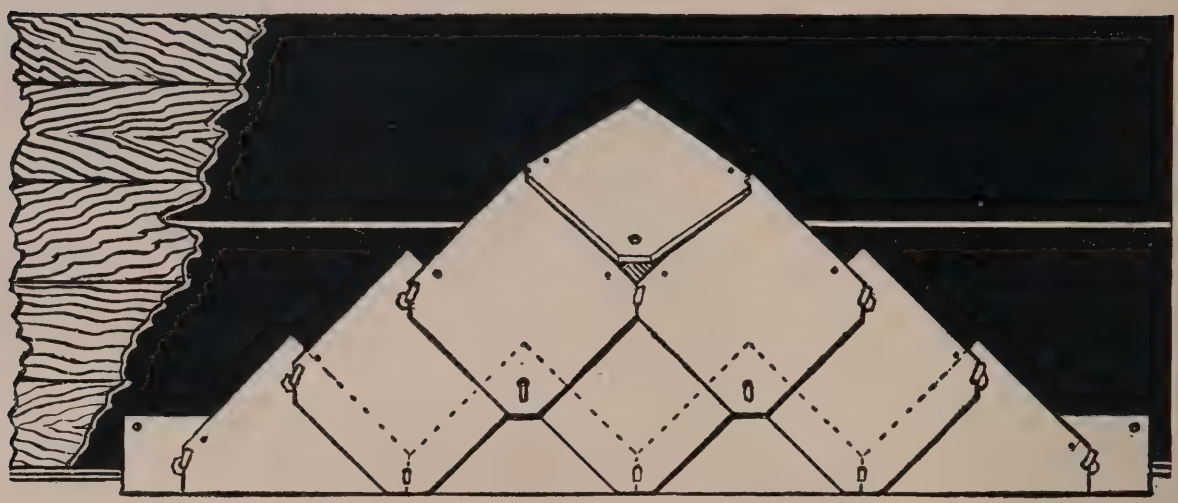


Illustration Shows Best Method of Applying Honeycomb Shingles.
The Most Popular Style for the Roof

SIZES

Honeycomb (Hexagonal)	12″x12″	Uniformly
Diagonal (Diamond)	16″x16″	5/32″
American	8″x16″	Thick

COLORS

Indian Red	Heather
Natural Gray	Autumn Leaf Brown
Blue Black (Slate)	Chrome Green

Nasco Asbestos Shingles Add Permanent Beauty and Value to the Home

Enduringly Tough and Strong

Nasco Shingles are manufactured from the most ideal combination of raw materials available for the roof—the finest quality, specially-prepared hydraulic cement and genuine Chrysolite-asbestos fibre—minerals that cannot rot and are everlasting. Pure metallic oxide colors are used (no vegetable or aniline dyes) so that the colors are fast and permanent and the roof will never require painting.

Therefore, if you figure on the cost-per-year basis, Nasco Shingles are the cheapest and best for every home.

Defies All Climatic Conditions

The insulation qualities of Nasco Shingles against heat and cold are remarkable. You actually save coal in the winter and the sun's strongest rays have no effect on a Nasco Roof.

A salty or moist atmosphere causes the majority of roofing materials to decay very rapidly, but climatic conditions will never affect Nasco Shingles.

You can therefore readily appreciate that when Nasco Shingles are applied, you will be able to FORGET YOUR ROOF AS LONG AS YOU LIVE.

Anti Fire

Fire caused by sparks on roof is the second largest factor in Uncle Sam's tremendous annual fire loss of over $500,000,000. Consider the added safety and comfort afforded you by a Nasco Roof, which is absolutely fireproof. Sparks are harmless on Nasco Shingles and a fire in a house with a Nasco Roof can very readily be prevented from spreading, but when a house with an inflammable roof burns, it becomes a menace to the entire neighborhood.

A Nasco Roof will lower your fire insurance premium, because asbestos shingles have been given the highest rating by the Fire Underwriters Laboratories.

No Repairing Necessary

The roof should remain in A-1 condition as long as the house stands and when this is possible at a nominal initial cost, without the necessity of looking after the roof from time to time, you certainly should avail yourself of the opportunity—Nasco Asbestos Shingles afford every advantage and not a single come-back, no matter what sort of roofing test you put them to.

Nasco Asbestos Boards

There are innumerable uses in the home for Nasco Asbestos boards—flat and corrugated—for sheathing, wallboard, roofs, fireproofing, partitions, etc. Flat Boards: 4 ft. square; also 3x6 ft. and 4x8 ft. Corrugated Boards: In 4 ft. and 8 ft. lengths—28 inches wide. Color: Natural Gray. Thickness: 5/32 to 1 inch.

For further details and literature, write to: **NATIONAL ASBESTOS SHINGLE CORP., NEW YORK, N. Y.**

National's Asphalt Roofing and Shingles

Made By

THE NATIONAL ROOFING COMPANY

TONAWANDA, NEW YORK

Roofing Products

National's Giant Shingles
Natroco Individual Shingles
National's Tylfect Slab Shingles
NRC 4-in-1 Slab Singles
Security 6" Joint Surfaced Roofing
Natroco 3" Joint Surfaced Roofing
Royal 2" Joint Surfaced Roofing
Jefferson Smooth Surfaced Roofing
Champion Smooth Surfaced Roofing

TRADE MARK
Reg. U. S. Pat. Off.

Paint Products

Natroco Outside Paint
Natroco Flat Wall Finish
Natroco Floor Paints
Egyptian Barn Paint
Metal Protective Paints
Roof Coatings
Asbestos Cement
Natroco Factory White Paints

Products

This company manufactures an extensive line of Asphalt Shingles and Roll Roofings, Roof Coatings, etc. Roofing products are marketed under the trade names listed above. Special attention is given to the manufacture of Asphalt Shingles.

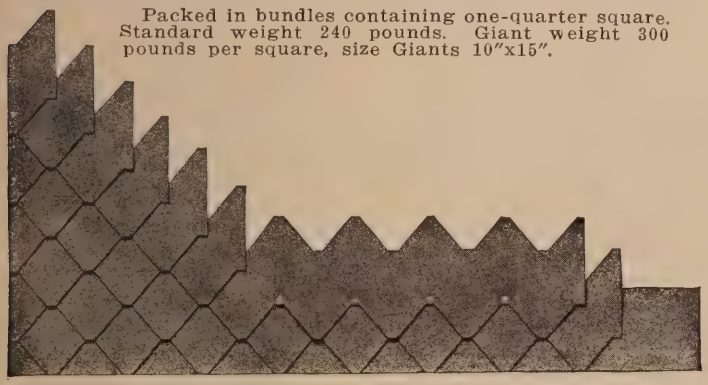
The company also owns and operates the Natroco Paint and Varnish Works, making a complete line of House Paints for exterior and interior purposes, Wall Finishes, Cement and Concrete Paints, Industrial Factory Paints, Structural Steel Paint and Metal Paints.

Literature illustrating any or all of our products will be mailed on request.

Natroco Shingles

These shingles are cut from our best quality of roofing, surfaced with red, green or blue-black crushed slate. The asphalt insures stiffness in the shingle, and its binding and adhesive qualities permanently hold the mineral surfacing thus contributing to the long-wearing qualities of the roof.

Packed in bundles containing one-quarter square. Standard weight 240 pounds. Giant weight 300 pounds per square, size Giants 10"x15".



Nation's Tylfect Slab Shingles (illustrated above)

enable you to lay an artistic roof with a great saving in time and labor. These Tylfect Shingles come in slabs 36" long by 10-14 inches wide, each slab containing 4 shingles. The shingles are self-spacing and only 4 nails are required to each slab. These shingles are made of high-grade roofing felt, thoroughly saturated with mineral asphalt, on top of which is deposited an extra heavy layer of asphalt cement into which, while hot, are embedded uniform particles of crushed slate. Colors are Red, Green and Blue-Black. Packed in convenient bundles each containing 51 slabs. Two bundles cover one square and weigh about 210 lbs. We could tell you a lot more about these better shingles but would prefer to send you a sample slab and let them speak for themselves. Jumbo weight 275 lbs.

Natroco Paints

The paint factory owned by The National Roofing Company is one of the most complete and modern in existence. All materials used in the manufacture of our products are of the highest quality and are carefully selected for the purposes for which they are used. Modern equipment and skilled workers, holding to high standards, have made our trade-mark a synonym for QUALITY wherever paints are used. The trade names under which Natroco Paints are marketed are listed at the top of this column.

N. R. C. 4-in-1 Slab Shingles



A big, husky slab—four shingles in one piece—36" long by 10" wide, and 36" long by 12½" wide, having self-spacing cutouts 8" apart. Made of the best quality felt base, thoroughly impregnated with pure mineral asphalt, on which is deposited an extra heavy layer of mineral asphalt cement, with uniform particles of crushed slate imbedded in it, while cement is hot. Lays quickly and easily—no spacing, sorting or matching required. Packed 51 slabs to a bundle (bundles weigh about 90 pounds) sufficient to lay 50 square feet of roof surface. Also made in Giant Weight.

Security Roofing



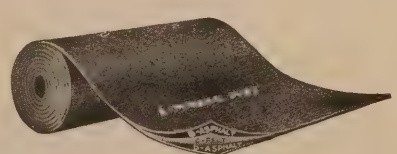
One very important feature of Security Roofing is the 6-inch patented, joint whereby a full thickness of the soof is welded over the top of the nail, eliminating nail hole leaks, reducing the danger of joint leakage, and making a one-piece continuous roof. Security Roofing is built-up in layers of asphalt-saturated felt, mineral asphalt cement, and fine sea gravel, red or green crushed slate, permanently imbedded in the top layer of asphalt. **No coal tar is used.** In rolls of 120 square feet (including 20 square feet allowed for 6-inch joint) sufficient to cover 100 square feet of surface. Nails and hard cement for applying, packed outside each roll.

Security Roofing is used throughout the civilized world, in every climate, on every kind of roof. It is giving universal satisfaction and will stand up under the most adverse conditions.

Natroco Mineral Asphalt Roofing

This is an extra heavy single felt roofing equipped with a three-inch unsurfaced lap joint. On the top, or weather side, of the felt is deposited an unusually heavy layer of asphalt cement into which, while cement is hot, is deposited red or green crushed slate, making a well calendared surface that requires no painting or coating. It comes in rolls containing 111 square feet sufficient to lay 100 square feet of surface. Liquid joint cement and nails are packed with each roll. Construction specifications furnished on request.

Jefferson Brand Roofing



This is the best smooth-surfaced roofing possible to produce. Made of the highest grade, carefully selected and tested materials. Base or foundation is of specially made, high-grade, extra long fibre wool felt, saturated and compressed to give added strength, toughness and durability. A heavy coating of genuine natural mineral asphalt is deposited on both sides protecting the felt from dampness, steam, gases, fumes and the elements. Can be laid either side up. Made in medium and heavy weights. Nails and cement for applying are included in each roll.

For further details and literature, write to: **THE NATIONAL ROOFING CO., Tonawanda, N. Y.**

REYNOLDS ASPHALT SHINGLES

Made by

H. M. REYNOLDS SHINGLE COMPANY

"Originator of the Asphalt Shingle"

GRAND RAPIDS, MICHIGAN

Individual Shingles

Strip Shingles



Mineral Surfaced Rolled Roofing

Smooth Surfaced Rolled Roofing

A Reynolds Roof Laid in 1912.

For a quarter of a century the name "Reynolds" on roofing products has been a guarantee of highest quality and certain satisfaction.

Since Reynolds produced the first asphalt shingle, every care in the selection of raw materials and in manufacturing methods has been employed to keep the quality up to the Reynolds standard.

Contractors who employ Reynolds products as a roof covering are giving their customers a roof that is durable, beautiful, economical and fire-safe.

Every package of the genuine bears the Reynolds Emblem of Service on the package. It is put there for your protection and your purchase entitles you to the best.

Leading lumber dealers recommend and sell Reynolds.

APPROVED BY THE TRADE MARK H.M.R. ESTABLISHED 1868 UNDERWRITERS LABORATORIES

For further details and literature, write to: **H. M. REYNOLDS SHINGLE CO., Grand Rapids, Mich.**

Safekote Slate-surfaced Asphalt Shingles

SAFEPACK MILLS

778 Atlantic Avenue, Boston, Massachusetts



Products

Safekote Slate-surfaced Asphalt Shingles in red, green, blue-black and the new combination of colors called COLORMIXT. Known (according to type) as Safekote "300 to 1" Individual Shingles. Standard Individuals. "4 in 1" Standard Strips: "3 in 1" Giant Strips.

Safekote Roll Roofing. Two kinds. Slate surface. Plain surface.

Safekote Triple Sheath and Building Papers.

Safekote Roof Paints and Cements.

Uses

To provide the most dependable and at the same time economical roofing for homes, garages, barns, commercial structures, manufacturing establishments. Also to bring to them the finish, attractiveness, and beauty which they deserve.

Safekote Shingles are especially handsome. Handsome in colors as well as in effect. The green, red and blue-black shades are appropriate to any building which has a sloping roof. All types are made in the three colors.

COLORMIXT, a new Safekote Shingle, is a favorite with home builders. It is unusually beautiful. These shingles meet every need for color in the roof. They offer new beauty, originality in roof effect, and guaranteed protection. At present they are made only in the "300 to 1" Individuals and 12½" Standard "4 in 1" Strips.

Construction

SAFEKOTE materials are the best of their kind the world affords. Manufacturing processes are the finest yet developed. All-rag felt is used as the base of Safekote Shingles and roll roofing. It is remarkably strong and durable. This is completely saturated with finest quality asphalt and then lastingly surfaced with crushed slate in permanent colors. The finished products are fire-resistant, proof against years of hardest weather, and fully guaranteed.

SAFEKOTE Shingles are heavier than ordinary kinds. The increased dimensions of the "300 to 1" Individuals and the "3 in 1" Giants cut down the time and labor of laying. A point especially appreciated by contractors.

Types and Sizes

SLATE SURFACED SHINGLES—SAFEKOTE *"300 to 1" Individual Shingles*—10"x15¾". Approximate weight, 300 lbs, per square. 276 shingles—4 bundles per square. SAFEKOTE *Standard Individual Shingles*—9"x12¾". Approximate weight, 235 lbs. per sq. 424 shingles—4 bundles per square. SAFEKOTE *"3 in 1" Strip Shingles*—12"x36"—5" cut-outs. Approximate weight, 240 lbs. per sq. 80 shingles—3 bundles per sq. SAFEKOTE *Strip Shingles*—12½"x36"—4" cut-outs. 245 lbs.—100 shingles—3 bundles per square. SAFEKOTE *Strip Shingles*—10"x36"—4" cut-outs. 195 lbs.—100 shingles—2 bundles per square.

SLATE-SURFACED ROLL ROOFING—36" wide, 108 sq. ft., standard weight 85 lbs.—heavy weight 105 lbs. per roll. *18" wide,* 116 sq. ft., 90 lbs. per roll Each roll complete with nails and cement.

ROLL ROOFING, SMOOTH AND GRAINED—SAFEKOTE AND WATERSHED *Smooth Surfaced Roofing, and Domino Grain Surfaced Roofing* are all of exceptional quality made to give complete satisfaction. All rolls are 36" wide, in weights suitable for every purpose,, and are packed with necessary nails and cement.

SHEATHING PAPER—SAFEKOTE *Triple-Sheath* is a distinctive building paper made from No. 1 kraft papers cemented with asphalt—positively water-proof, will not disintegrate—clean, very durable—19 lbs. per roll of 500 sq. ft. SAFEKOTE *Sheathtite Building Paper,* 1000 sq. ft. per roll. SAFEKOTE *Black Insulating Paper,* SAFEKOTE *Redplex* and SAFEKOTE *Rosin Sized Paper* are all very desirable sheathing papers, each especially fitted for its particular purpose.

TARRED FELT—12 lb. felt put up in rolls of 25 and 55 lbs., containing approximately 150 to 400 sq. ft.

ROOF PAINT AND CEMENT—SAFEKOTE *Asphalt Roof Coating,* SAFEKOTE *Lap Cement,* SAFEKOTE *Black Metal Paint, and* SAFEKOTE *Plastic Roofing Cement* are excellent for preserving, renewing, repairing and waterproofing. They come in containers of convenient sizes as well as in barrels.

Guarantee

The SAFEKOTE guarantee fully protects the contractor and the builder. It is backed by an organization long known throughout New England for the high quality of its goods and service. Each bundle of Safekote Shingles also bears the Fire Underwriters' label.

Samples and Information

Samples of any or all the products listed above will be sent you upon request. Complete descriptions of the goods and full information about application, costs, etc., will also be furnished. Let Safepack Mills help you with your roofing problems. Write today.

Sal-Mo-Link Asphalt Shingles

Made By

140 South Dearborn St., CHICAGO, ILL.

SALL MOUNTAIN COMPANY

Factories: Porter, Indiana; Scranton, Pa.; Rockdale, Ohio

Eastern Office SCRANTON, PA.

Products

This company manufactures a full line of Asphalt Shingles, Roll Roofing and Asbestos Insulating Materials. Literature describing any of our products will be mailed on request.

Sal-Mo-Link Asphalt Shingles

This new shingle **links the tabs together.** The four shingles of the strip, instead of hanging loosely as in the old-fashioned shingle, are now linked together near the butts, thereby giving greater protection against wind and rain and also adding to the strength and rigidity of the full strip. Sal-Mo-Link Shingles beautify the home and enhance its value. Easily laid. Require fewer nails. Will not curl, or flap. Made of the very best grades of felt and asphalt. Approved by Fire Underwriters. Cost no more than old fashioned full slotted strip shingles.



Big Coverage

100 Sal-Mo-Link Shingles, laid 4 inches to the weather, completely cover one square (100 square feet).

12½"x36" (Standard) 3 Bundles per square.
Approximate Weight 240 lbs.
12½"x36" (Giant) 3 Bundles per square.
Approximate Weight 300 lbs.
10"x36" (Standard) 2 Bundles per square.
Approximate Weight 190 lbs.

Colors

Green, Red, Blue-Black and Melo-Tone.

SALL MOUNTAIN COMPANY SAL-MO PRODUCTS

(TRADE MARK)

Giant Individual Shingles

Made of high-grade, extra heavy, tough fibrous felt, carrying a maximum of Asphalt Saturant, and a heavy layer of pure Asphalt coating into which is imbedded natural, finely crushed minerals under high pressure. Makes a beautiful and economical roof. Choice colors—Red, Real Green, and warm colored Blue-Black also Melo-Tone shades. Size: 12x15 inches. Four bundles to the square. Approximate weight 300 lbs. per square.

Aircell Corrugated Asbestos Paper

The best fire-proof material for covering heaters and hot-air pipes. Made of a ¼-inch and ⅛-inch corrugated asbestos sheet with backing of flat asbestos paper.

Asbestos Aircell Pipe Covering

Made up of alternate layers of plain and corrugated asbestos paper, finished with canvas jacket and lacquered metal bands. Light, fire-proof and durable, and has high insulating efficiency.

Asbestos Paper

Made by modern methods by a company that has had long experience in the manufacture of asbestos products. A fire-proof paper of the highest quality.

Asbestos Millboard

For protecting ceilings and walls exposed to heat. Made of pure asbestos fiber. Standard size sheet 42" x 48"—$\frac{1}{15}$ to ½-inch thick. Put up in crates weighing approximately 450 lbs. each.

Sal-Mo Asbestos Cements

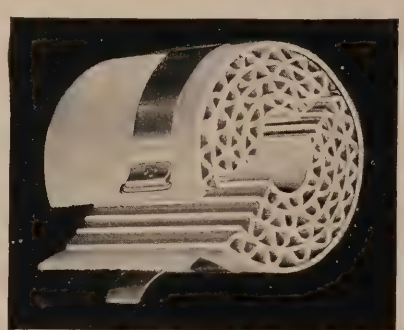
For covering Boilers and Fittings. Readily applied over irregular surfaces. Comes dry in 100 lb. bags and needs only the addition of water to be ready to use.

Sal-Mo Asbestos Furnace Cement

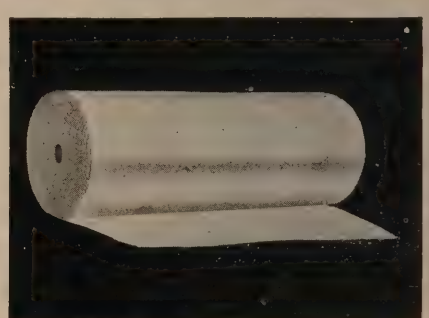
Adheres firmly to all metals, firebrick and stone; and does not crack, shrink or disintegrate when subjected to heat. Used for setting up furnaces, stoves and ranges and for repairing broken joints. Sets as soon as applied.



AIRCELL CORRUGATED ASBESTOS PAPER—Put up in rolls containing 250 square feet. Approximate weight 60 lbs. per roll. Packed 4 rolls to the crate. Crate weighs approximately 22 lbs.



ASBESTOS AIRCELL PIPE COVERING—Made in 3 ft. sections ½ to 1" thick, to fit all standard pipe sizes.



ASBESTOS PAPER—Put up in rolls 36" wide, weighing approximately 100 lbs. each. As a firestop protecting floors, walls and ceilings—there is no better material than Sal-Mo-Asbestos Paper.

For further details and literature, write to: **SALL MOUNTAIN COMPANY** CHICAGO, ILL. or SCRANTON, PA.

Creo-Dipt Stained Shingles

Made by

CREO-DIPT COMPANY, Inc.

General Offices: North Tonawanda, N. Y.

FOR RE-BEAUTIFYING OLD HOMES





Close-up of home of Mr. Wm. Zimmerman, Buffalo, N. Y., showing how easily any type of home may be re-beautified with Creo-Dipts.

FOR NEW ROOFS AND SIDE WALLS ON THE OLD HOME

Creo-Dipts Mean Year 'Round Work

In your town there are dozens of old clapboard houses that can be completely modernized by re-roofing and by laying Creo-Dipt Shingles right over the old siding—work that can be done in your usual slack seasons.

Laid Right Over Old Siding

For the builder, this Creo-Dipt method of re-beautifying is particularly profitable. The Creo-Dipt Shingles are laid right over the old siding. There is no expensive preparation; little more cost than one thorough painting. Once the Creo-Dipts are applied, the job is finished, because Creo-Dipt Shingles come already stained and require no painting.



The Townsend home in Leroy, N. Y., re-beautified with 24-inch gray Creo-Dipt Shingles laid right over old siding.

Creo-Dipts Save Their Cost

Where ordinary clapboards usually require seven thorough paintings in twenty years to preserve the wood from rot, Creo-Dipts require only one brushcoat every ten years; in fact, many owners never re-stain them at all.

In painting expense alone, over a twenty year period, Creo-Dipts save their cost in reduced upkeep.

And in addition, Creo-Dipt outside walls and roof save fuel. One home owner figures he saved three tons of coal the first winter, while in summer the house was cooler.

Many Colors—Many Possibilities

Creo-Dipt Shingles come in a wide variety of colors and sizes suitable for every type of house.

They are stocked by representative lumber dealers everywhere. Ask your dealer to show you samples and color pad. Or, write for portfolio of large photographs of old homes re-beautified with Creo-Dipts and new homes designed by prominent architects and for booklet of color suggestions. This is free to builders.

CREO-DIPT COMPANY, INC.,

1175 Oliver Street, North Tonawanda, N. Y.

In Canada: Creo-Dipt Company, Ltd., 1610 Royal Bank Bldg., Toronto.

Sales Offices in Principal Cities. Plants located for easy shipping at North Tonawanda, Minneapolis, Kansas City, Mo., Vancouver, B. C.

For further details and literature, write to: **CREO-DIPT COMPANY, INC.,** North Tonawanda, New York

Creo-Dipt Stained Shingles

Made by

CREO-DIPT COMPANY, INC.

General Offices: North Tonawanda, N. Y.

FOR NEW HOMES OF DISTINCTIVE CHARM



Dixie White Creo-Dipt side-walls and weathered gray roof on Gillies residence, Flushing, L. I. Architects: Treanor & Fatio, New York City.



Home of Architect W. A. Cannon, Niagara Falls, N. Y. 18" Weathered Gray Creo-Dipt Shingles on roof; 24" Weathered Gray wide exposure on side walls.

FOR ROOFS AND SIDE-WALLS ON THE NEW HOME—
Creo-Dipt Beauty Pays Its Own Way

For the new home, even the first cost of Creo-Dipt side-walls and roofs is less than that of ordinary materials. And over a period of years, Creo-Dipt beauty pays its own way—for on new homes as on old—Creo-Dipts mean astonishing savings in upkeep.



Creo-Dipt green thatched roof and silver gray side-walls on residence of Mr. S. J. Eckenrode, Jackson, Mich. Architect: Geo. B. Rheinfrank, Toledo, O.

How Creo-Dipts Save Paint Bills

Creo-Dipt Shingles are selected red cedar, thoroughly stained and preserved by our own process. Architects and builders have learned that Creo-Dipt colors are durable colors—that the individual method of staining makes colors uniform from one end of a shingle to the other.

The fact that Creo-Dipts come already stained saves painting when they are put on the job. In twenty years, Creo-Dipt side-walls and roofs eliminate enough repainting to save every penny of their cost.

Many Colors—Many Possibilities

Would you like to have large photographs of actual Creo-Dipt homes designed by prominent architects? Write for a portfolio of these photographs and a booklet of color suggestions. Or ask your lumber dealer—(Creo-Dipt Stained Shingles are stocked by leading lumber dealers everywhere)—to show you a Creo-Dipt color pad.

Creo-Dipt Thatched Effects

If you are interested in Creo-Dipts for thatched effects, write for portfolio of photographs of actual Creo-Dipt thatched roofs and instruction book giving details for design and construction. This is free to builders.

Creo-Dipts Mean Salability

Builders everywhere like Creo-Dipts because they add to the salability of a home. To the prospective buyer, they mean lowered upkeep in the years to come; and Creo-Dipts have been so strongly advertised, home owners everywhere recognize their known value.

CREO-DIPT COMPANY, INC.,

1175 Oliver Street, North Tonawanda, N. Y.

In Canada: Creo-Dipt Company, Ltd., 1610 Royal Bank Bldg., Toronto.

Sales Offices in Principal Cities. Plants located for easy shipping at North Tonawanda, Minneapolis, Kansas City, Mo., Vancouver, B. C.

For further details and literature, write to: **CREO-DIPT COMPANY, INC.,** North Tonawanda, New York

Cabot's Creosote-Stained Shingles, Stained with Cabot's Creosote Shingle Stain

Manufactured by

SAMUEL CABOT, INC.

BOSTON
141 Milk St.

NEW YORK
342 Madison Ave.

CHICAGO
5000 Bloomingdale Ave.

Real Estate Trust Bldg., Philadelphia; 2035 E. 19th St., Kansas City; Builders' Exchange, Minneapolis; Hibernian Bldg., Los Angeles; 444 Market St., San Francisco; 96 Front St., Portland Oregon. Agents all over the Country.

Other Products:
Cabot's Waterproof Stucco and Brick Stains; Old Virginia White; Double-White; Mortar Colors; Conservo Wood Preservative; etc. For Heat-Insulating and Sound-Deadening "Quilt" see page 107.

Cabot's Creosote Shingle Stains
For staining and preserving shingles, siding, and other exterior woodwork. The original and standard exterior stains, in use over forty years. Made of the strongest and purest pigments, colloidally ground to impalpable fineness and suspended in Cabot's Pure Creosote. "Creosote is the best wood preservative known." Rich, velvety, unfading colors, proved and guaranteed. No one even claims to make better stains.

Cabot's Creosote-Stained Shingles
Standard red cedar shingles—meeting the most exacting requirements of the Shingle Associations—ready-stained with Cabot's Creosote Stains. Sound, live lumber, straight grain, uniform, non-warping. Last a lifetime.

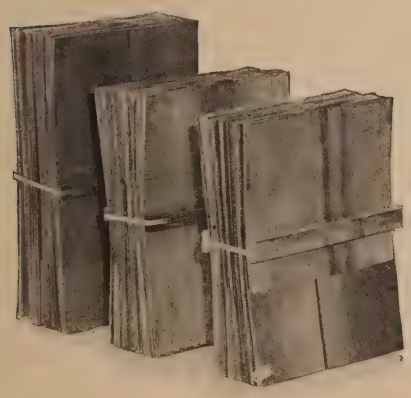
All Sizes
16″, 18″ and 24″ shingles for roofs and walls.

The Warmest House Finish
Warmer than clapboards, siding or stucco. Will save their cost over and over again in reducing fuel bills. Make houses warmer in Winter and cooler in Summer.

Cheaper Than Painted Siding
24″ wall shingles are cheaper than siding, and much more picturesque and distinctive.

Much Handsomer
The deep, rich coloroings of stained shingles are much handsomer than painted wood. The transparent stains sink into the wood and color it without covering it, bringing out the beauty of the grain.

Colors
All shades of moss-green, silver and weathered gray, tile red, bungalow, bark and tile brown and yellow, besides numerous special tones in great variety.



Blended Roofs

Shingles ready-bundled for laying blended-roofs in tile—reds, greens, grays and variegated effects of all kinds; or with instructions for mixing.

Cabot's Old Virginia White
The original white stain. As bright and cool as fresh whitewash and as clean and durable as paint, but with no "painty" effect. The ideal white for shingles and other rough wood.

Cabot's Double-White
Much whiter than white lead paint and has 50% greater hiding power. Two coats will cover better than three coats of lead and oil. A flat brilliant white for all kinds of wood, cement, brick and metal work, outside or inside.

Cabot's Waterproof Stucco and Brick Stains
For waterproofing and staining stucco, concrete and brickwork in soft, rich, flat tones, without coating or spoiling the texture. Cannot crack or peel. Easy to apply, spreads freely, reduces labor cost, and outwears heavy coatings.

Cabot's Mortar Colors
Ready-mixed colors for mortar and concrete. Great coloring strength and labor-saving mixing qualities make them the cheapest colors to use. Uniform and lasting.

Cabot's Conservo Wood Preservative
A special creosote compound of greatest penetrating and preserving power. Protects piles, planking, screens, sills and all other lumber from decay or injury by Termites or other insects.

Cabot's Clear Waterproofings
For cement and brickwork. Colorless water-proofings that penetrate the pores of cement or brick and seal them against rain, preventing dampness and injury to surfaces and interior finish and decorations.

Cabot's Damp-Proofing
A black bonding damp-course for direct plastering on brick and concrete. Saves lath and plaster, excludes moisture.

Cabot's Flexiblac
A flexible black bitumen protective coating for iron and steel timbers girders, tanks, etc.



This artistic and cozy little house in Portland, Oregon, has a roof of Cabot's Creosite Stained Shingles, and wall shingles finished in Cabot's Old Virginia White Heat-Insulated with Cabot's "Quilt." Harold Doty, architect, Portland.

For further details and literature, write to: **SAMUEL CABOT, INC., Boston, Mass.**

STAINED OR PLAIN

Bear Brand Red Cedar Shingles

"THE SHINGLE BEAUTIFUL"

Made by

PACIFIC TIMBER COMPANY

EVERETT, WASHINGTON

Products

This Company manufactures "The Shingle Beautiful"—a Red Cedar Shingle, stained or plain, marketed under the trade name, "Bear Brand." If your local lumber dealer does not have this superior shingle in stock write to us for samples and name of nearest dealer who can supply you.

Trade Mark Registered

Uses

Bear Brand Red Cedar Shingles are suitable for both roofing and siding and the range of colors and sizes makes it possible to obtain strikingly beautiful effects. Their use adds to the attractiveness of the home and to its actual sales value.

Grades

Bear Brand Red Cedar Shingles are made in the following grades:

Extra Clears
Dimension Clears
XXXXX
XXX
Perfection
Royals
Double Royals

For definitions on these various grades, see "Grading Rules" on next page.

Sizes

Three sizes of shingles are made—16 inch, 18 inch and 24 inch. All sizes are sold on a square basis. A square of 16 inch shingles will cover 100 square feet when laid with 5 inches exposed to the weather. A square of 18 inch shingles will cover 100 square feet with 5½ inches exposed, and a square of 24 inch shingles will cover 100 square feet with a 10 inch exposure.

Colors

Bear Brand Red Cedar Shingles can be furnished either plain or stained in any of the following colors:

Red, Green, Brown,
Blue, Purple, Straw,
Gray and White.

The white shingle is not stained but is colored by a different method which produces the true Colonial White effect.

When a mixed color effect is desired on roof or siding, shingles in "Variegated Shades" should be ordered. Bundles will then be furnished containing shingles in two or more shades.



Machine Staining Insures Thorough Penetration and Uniform Shades

All Bear Brand Shingles—"The Shingle Beautiful"—are stained by a patented mechanical process that insures thorough penetration of the stain and uniform shades. Nothing is left to chance or to the skill of the operator, as in the hand-dip method of staining. The machine tender merely feeds the bundles of shingles to the machine and removes them when the staining operation is completed, the operation of the machine itself being automatic and pre-determined so that each shingle received exactly the same treatment.

The shingles are completely immersed in the stain for a much longer period than is practicable by the hand dipping method, and all excess stain is removed by centrifugal force, resulting in a uniformity of shade unattainable by any other method.

Shingles Thoroughly Dried Before Staining

Bear Brand Shingles are immersed in the stain while they are still warm from the kilns, absolutely free from moisture and with the pores of the wood open—in other words in the best possible condition to absorb the stain. This fact, coupled with the long immersion under pressure results in the thorough penetration which is necessary to insure durability of the shingle and permanence of color.

Quality of Stain

Only the highest grade pigments and preservatives are used in the manufacture of "The Shingle Beautiful." The cresote used is refined until all traces of tar acids and sulphur are removed, and is then mixed with high grade boiled linseed oil and China wood oil. The colors used are the best obtainable, free from adulteration of any kind. By our patented process of mechanical staining the pigments used are kept constantly in suspension in the staining fluid without requiring the addition of any filler or fluffy material for this purpose.

Write for Booklet

The story of "The Shingle Beautiful" is completely and interestingly told in a booklet printed in three colors, which will give you some idea of the beauty of Bear Brand Stained Shingles as well as illustrating how to use them most effectively. We shall be glad to mail you a copy of this booklet on request.

For further details and literature, write to: **PACIFIC TIMBER COMPANY, Everett, Wash.**

BEAR BRAND — "The Shingle Beautiful" (Continued)



GRADING RULES

EXTRA CLEARS, 5/2-16″—5 butts to measure not less than 2″ when green. Random widths, but no shingle narrower than 2½″. Strictly clear but admits slight defects in 10% 12″ and over from the butt.

DIMENSION CLEARS, 16″-5/2-5″—5 butts to measure not less than 2″ when green. All shingles strictly clear and 5″ in width.

XXXXX, 5/2-16″—5 butts to measure not less than 2″ when green. Random widths, but no shingle narrower than 3″. 100% clear, 100% edge grain, free from sap.

XXX, 6/2-16″—6 butts to measure not less than 2″ when green. Random widths, but no shingle narrower than 3″. 100% clear, 100% edge grain, free from sap.

PERFECTION, 5/2¼-18″—5 butts to measure not less than 2¼″ when green. Random widths but no shingle narrower than 3″. 100% clear, 100% edge grain, free from sap.

ROYALS, 4/2-24″—4 butts to measure not less than 2″ when green. Random widths, but no shingle narrower than 4″. 100% clear, 100% edge grain, free from sap.

DOUBLE ROYALS, 2/2-24″—2 butts to measure not less than 2″ when green. Random widths, but no shingle narrower than 4″. 100% clear, 100% edge grain, free from sap. All shingles to be smoothly sawn and otherwise well manufactured.

PACKING RULES

16″ SHINGLES—4 bunches packed 20/20 courses to the bunch constitute one square based on laying the shingle 5″ to the weather.

18″ SHINGLES—4 bunches packed 18/18 courses to the bunch constitute one square based on laying the shingles 5½″ to the weather.

24″ SHINGLES—3 bunches packed 13/14 courses to the bunch constitute one square based on laying the shingle 10″ to the weather.

Weatherbest Creosoted Stained Shingles

Manufactured By

WEATHERBEST STAINED SHINGLE CO., Inc.

GENERAL OFFICES: NORTH TONAWANDA, N. Y.

Plants at North Tonawanda, N. Y., and Minnesota Transfer, Minn.

Products

WEATHERBEST Creosoted Edge Grain Red Cedar Stained Shingles for roofs and sidewalls; WEATHERBEST 24 inch Colonial White Stained Shingles; WEATHERBEST Thatched Effect Stained Shingles; WEATHERBEST Creosote Shingle Stain.

Weatherbest STAINED SHINGLES FOR ROOFS AND SIDEWALLS

Sizes and Service

WEATHERBEST Stained Shingles are furnished in 12", 16" (regular and "Doubl-Thik"), 18" and 24" (regular and "Doubl-Thik") sizes. Lumber dealers everywhere carry popular colors in stock and quick shipping service is maintained from our factories for all special orders.

For Life-Long Roofs and Sidewalls

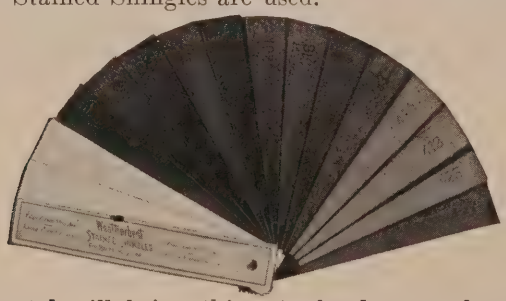
WEATHERBEST Stained Shingles are used on sidewalls as well as roofs and when applied with zinc-coated nails that do not rust will give 50 years of service on roofs and last as long as the building on sidewalls. The soft, semi-transparent colors add much to the attractiveness of a home as WEATHERBEST stain emphasizes the grain of the shingles just enough so that the flat tone of a painted surface is absent.

Reliability and Quality

WEATHERBEST Stained Shingles and stain have been on the market for the past fifteen years and can be thoroughly relied upon to give entire satisfaction. Each bundle carries the WEATHERBEST label and is our guarantee of perfect material and lasting colors. Only the finest 100% Edge Grain British Columbia Red Cedar is used in the manufacture of WEATHERBEST Stained Shingles. Every shingle is perfect from tip to butt. WEATHERBEST Stain consists of the strongest color pigments obtainable, high grade wood creosote and linseed oils—all properly mixed in our factories in the correct proportion to insure lasting, uniform colors. All shingles are unbundled at our factories and treated separately—not bundle dipt as is the case with many other stained shingles. After treatment, the shingles are rebundled and come ready to lay. No brush coat is required after shingles are laid.

Variety of Weather-Tested Colors

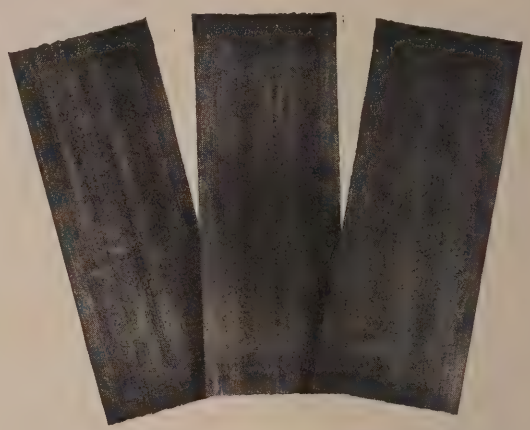
Twenty standard WEATHERBEST colors, any number of color schemes for beautiful variegated color roofs, and the fact that we match special colors without extra charge allows an almost unlimited means of carrying out any color idea desired when WEATHERBEST Stained Shingles are used.



A postal will bring this set of color samples which show WEATHERBEST colors on Red Cedar. Also ask for literature suggestive of the many color schemes available with WEATHERBEST.

Why Weatherbest Always Lie Flat

The prime essentials in stained shingle effects which give permanent satisfaction are (1) even, durable color and (2) freedom from curling and warping. WEATHERBEST Edge-Grain shingles can be counted on for these essentials. The two pictures below explain why WEATHERBEST colors last and the shingles do not curl.



A photographic reproduction of 100% Edge-Grain Red Cedar Shingles used exclusively in the manufacture of WEATHERBEST Stained Shingles. These Edge-Grain shingles readily absorb and retain the maximum amount of color. Edge-Grain and the creosote preservative is the reason why WEATHERBEST Stained Shingles lie perfectly flat during their many years of service.



The picture above shows poorly manufactured, flat or "slash" grain Red Cedar Shingles. The hard, flint-like surface of the flat grain cannot absorb and hold color. These are the kind of shingles that curl, warp and split after a few years of service.

For further details and literature, write to: **Weatherbest Stained Shingle Co., Inc., North Tonawanda, N. Y.**

Weatherbest Stained Shingles (Continued)



Residence of Mr. J. R. Randall, Minneapolis, Minn. Architects, Maine & Brown. 16" WEATHERBEST Moss Green Stained Shingles on roof and 24" Gray WEATHERBEST Stained Shingles on sidewalls.



"Brookwood," the attractive home of Mr. J. U. Riley, Treas., South Bend Lumber Co., South Bend, Ind. The 24" WEATHERBEST Silver Gray Stained Shingles used give added attractiveness to the sidewalls.

Weatherbest Stained Shingles

Adaptability of Weatherbest

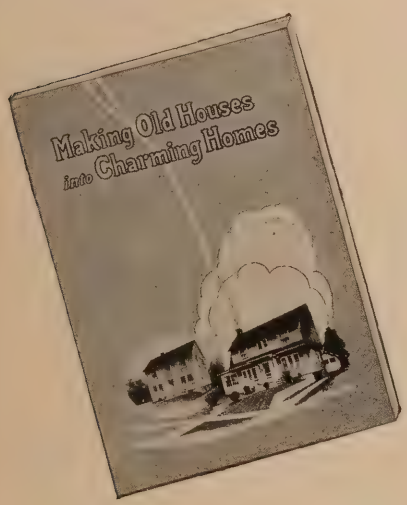
WEATHERBEST Stained Shingles are adaptable to nearly every style of building—from the small cottage or bungalow to the stately country home. A wide range of colors, variegated color schemes, various sizes and many unique ways in which WEATHERBEST Stained Shingles can be laid make it possible to give real individuality to a home.

Weatherbest Variegated Color Roofs

For WEATHERBEST Variegated Color Roofs usually several shades of one color are used. We properly proportion and mix the various colors selected in the bundle so that the carpenter lays a WEATHERBEST Variegated Color Roof in just the same manner as an ordinary one color roof and without any extra labor. WEATHERBEST Variegated Color Roofs are shown in color in our booklet, "Beautiful Roofs" which will be sent free on request.

For Remodeling Old Homes

If you own a home that is "growing old"—that is in need of "fixing up"—WEATHERBEST Stained Shingles right over the old clapboards will work wonders in transforming the old house into one of more modern day design. This method of adding many dollars in resale values to old homes is being done all over the country and when a porch is added or enclosed, and perhaps other minor exterior changes also made the results are indeed surprising.



You can re-cover old clapboard siding with WEATHERBEST Stained Shingles at only a very little more than the cost of repainting and because WEATHERBEST Stained Shingles require only a brush coat of stain once every five or six years to renew their original freshness the color upkeep of WEATHERBEST is much less than a painted sidewall. Send for the WEATHERBEST booklet, "Making Old Houses into Charming Homes." It shows many fine examples of old homes made new and gives full details for carrying out the work.

Low Cost of Weatherbest Sidewalls

WEATHERBEST Stained Shingle sidewalls when properly laid will lower the initial cost of construction from $100 to $200 on a house of average size. This saving is possible because every WEATHERBEST Stained Shingle is 100% perfect and Edge Grain and can be laid so as to give two full laps on sidewalls—equal to the thickness of bevel siding.

Weatherbest Thatch Roofs

The quaint thatched straw roofs of Old England always possessed a subtle charm but were two short lived for present day demands. WEATHERBEST Thatch Roofs have the soft, rounding curves and charm of those old straw roofs and provide a roof that will last for more than a life time. Full instructions for constructing a WEATHERBEST Thatch Roof, color suggestions and full page illustrations are given in the booklet pictured here and sent free on request.





For further details and literature, write to: **Weatherbest Stained Shingle Co., Inc., North Tonawanda, N. Y.**

EDHAM KOLORED SHINGLES

Made by

EDGECUMBE-NEWHAM CO., LIMITED

VANCOUVER, B. C.

From the log to a linseed oil non-fading Kolored Shingle, all under the same roof

Timber Used

All EDHAM KOLORED SHINGLES are manufactured from British Columbia Upland Red Cedar, acknowledged by experts as the best wood for shingles.

Manufacture

After the logs are cut to length required, the bolts are then quartered to make strictly edge-grain shingles. The material during each operation is inspected by workmen and inspectors until each shingle is 100% edge-grain, 100% clear, 100% heart, smoothly sawn and otherwise well manufactured.

These shingles have the British Columbia "Edg-grain" inspection brand.

Kiln Drying

These shingles are carefully dried in improved dry kilns and are not over dried.

Edham Kolors

Strictly pure colors are used in the manufacture of our "kolor", ground in our own plant. After thoroughly grinding the colors in linseed oil, the "kolor" is made by thoroughly mixing the ground colors in correct proportions with pure linseed oil, pure creosote oil, lighter oils and binders. The result is a linseed oil "kolor" of the highest quality.

Our chemist constantly analyzes all oils and colors for purity.

How Colors Are Applied

The edge-grain shingles are completely and individually dipped by hand (not in bundles), while warm from the dry-kilns, and before any moisture is absorbed—insuring penetration and complete covering. Then, are allowed to drain off before re-bundling.

Reinspection

Before repacking, the shingles are reinspected, and any shingles defective in any way are discarded.

How to Identify

EDHAM KOLORED SHINGLES is plainly stamped in red letters on the band-stick on each bundle, and, in addition, a tag showing the grade and color number is inserted between the band-stick and the shingles.

Easy to Obtain

There is a dealer near you with EDHAM KOLORED SHINGLES in stock. Please write us for the name of your nearest dealer or other information.



Residence of Mr. James Benzie, Architect, Vancouver, B. C., showing Scotch Thatch Roof of Edham Kolored Shingles

Edham* KOLORED *Shingles

(Specify or Order by Full Name)

Standard Colors:

BUNGALOW BROWN
MOSS GREEN
TILE RED
SILVER GREY

Special colors supplied promptly

For further details and literature, write to Mill, or: **ARTHUR E. LANE LUMBER CORP.,** Eastern Sales & Service Office, New York City, N. Y.

MAUK

DOUBLE-DIPPED

STAINED SHINGLES

Permanence of color is all-important in stained shingles.

Mauk Double-Dipped Stained Shingles retain their rich, vivid color permanently.

The Mauk double-dipping process secures results which are impossible in single-dipped shingles.

In painting a house at least two coats of heavy paint are applied on the side wall.

Why not use shingles with two coats of stain on the roof, where the exposure is so severe?



--THE C. A. MAUK LUMBER COMPANY, TOLEDO, OHIO--

MAUK DOUBLE-DIPPED STAINED SHINGLES





In the illustration at right, the upper part shows results secured with single dipping, and the lower part with the Mauk Double-Dipping process. Note the extra heavy coating on the double-dipped shingle, which requires no further brush coat, and retains the color permanently.

Made of pure virgin red cedar

Mauk Double-Dipped Stained Shingles are made of pure virgin red cedar, 100% clear, 100% vertical grain and 100% heart—no sap.

The shingles are the highest grade produced. All cheap grades are rigidly excluded.

Pure stains which retain their true color

The stains used in Mauk Double-Dipped Shingles are pure colors. For instance the green is not a chrome green built up of a blue and yellow base—but a pure natural mineral color, and for this reason does not fade to blue or yellow on exposure. The grays and other colors are equally reliable and true, even after long exposure.

All Mauk Shingles are Double-Dipped

Stain, like paint, is judged by its ability to stand up under exposure to the weather. Mauk Double-Dipped Stained Shingles give extra service because they are made of the finest quality wood, and given extra wear-resisting qualities through the double-dipping process.

Naturally, no single-dipped shingles can retain their color as long as shingles which are double-dipped, for the same reason that no single coat of paint on a house will wear as long as two coats.

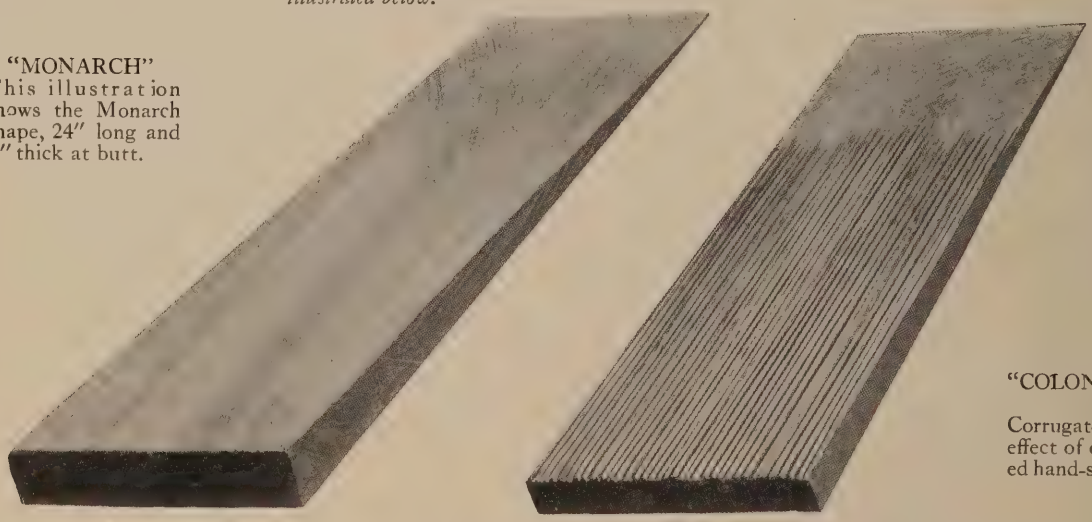
Mechanical application of stain insures evenness and permanence of color

By the Mauk process the stain is forced into the wood under pressure. This process assures an even and thorough diffusion. After the first dipping the shingles are dried and again stained under pressure.

Mauk Double-Dipped Shingles are free from streakiness and unevenness of color. Every shingle receives two complete coats of stain; no later brush-coat on the job is necessary.

Many beautiful and unusual effects can be obtained by the use of Mauk Double-Dipped Specialties in various combinations, for instance the "Monarch" and "Colonial Shake" illustrated below.

"MONARCH"
This illustration shows the Monarch shape, 24" long and 1" thick at butt.



"COLONIAL SHAKE"
Corrugated to give effect of old fashioned hand-split shingle.

THE C. A. MAUK LUMBER COMPANY, TOLEDO, OHIO

Wheeling Hand-Dipped Conductor Pipe

(Galvanized After Forming)

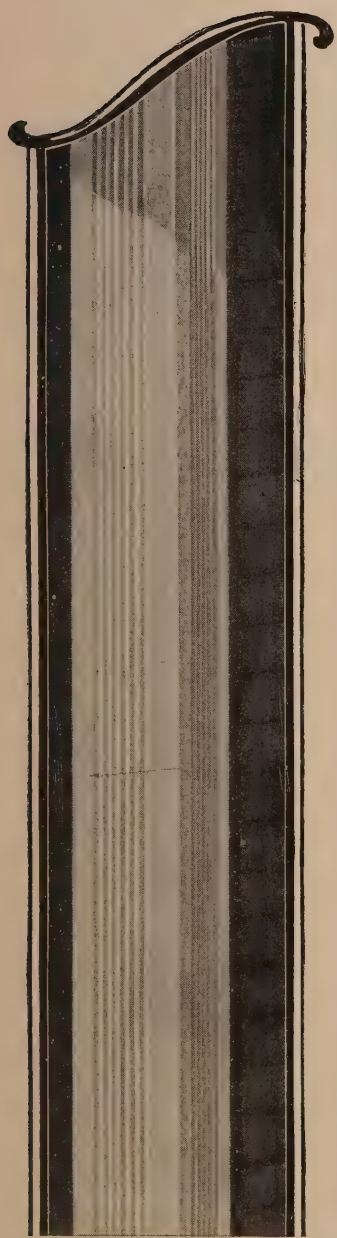
Manufactured by

WHEELING CORRUGATING COMPANY

Wheeling, W. Va.

BRANCHES:
New York
Philadelphia
Richmond
Chattanooga

BRANCHES:
Chicago
St. Louis
Kansas City
Minneapolis



Ask Your Building Material Dealer for Wheeling Products

Products

In addition to Wheeling Hand Dipped Conductor Pipe, described on this page there is a complete line of Wheeling Building Materials, manufactured to standards which insure better built homes. From cellar to roof, you can standardize on Wheeling products that reduce labor costs, save materials and insure lasting service.

Metal Lath
Corner Bead
Metal Shingles
Metal Ceilings
Metal Roofings
Roofing Ternes
Wall Ties
Wire and Cut Nails
Eavestrough
Mortar and Brick Hods
Conductor Pipe and Fittings

For information concerning Wheeling Metal Lath, see page 93.

Base of Ohio Metal Copper Bearing Steel

Hundreds of tests in all parts of the country under varying atmospheric conditions have shown steel alloyed with copper to be highly rust resisting in an uncoated state. Naturally, therefore, in developing conductor pipe to outwear all other pipe, Wheeling engineers employ a copper bearing steel as the basis of Wheeling pipe manufacture.

Terne Coated

Terne coating, employing a combination of lead and tin is the first process Wheeling uses in preparing the Ohio Metal Copper-Bearing Steel sheets before forming into pipe. The lead coating is sweated into the seam when the pipe is formed and dipped in zinc—thus securely soldering the seam.

Terne coating dispenses with acid pickling (the method usually used for galvanizing), and thereby eliminates all possibility of acid remaining in the pockets of the seams.

Zinc Coated (Galvanized After Forming)

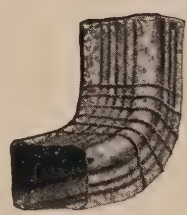
After the Terne coated Ohio Metal Conductor Pipe is completely formed, it is immersed in pure molten zinc by the hand-dipping process. A heavy coating of uniform density and thickness is given to the pipe on inside and outside surfaces, including edges, while the seam is also permanently sealed both inside and out. The heavy coating remains an unbroken protective shell that renders the pipe as immune to rust as could possibly be conceived.

Sizes and Styles

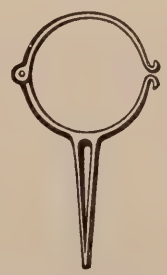
This pipe is made in three styles—Plain Round, Round Corrugated and Square Corrugated. It is available in ten foot lengths. Plain round is made in 2 in. to 8 in. sizes, Round Corrugated in 2 in. to 7 in. sizes and Square Corrugated in 2 in. to 5 in. sizes.

Fittings and Heavy Extra Coated Eavestrough

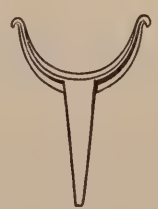
A complete line of Wheeling fittings for conductor pipe is also manufactured. Quality materials and simplified design insure the most substantial construction at the lowest cost. Wheeling Heavy Extra Coated Eavestrough is manufactured for use with Wheeling Conductor Pipe and is made of the same fine Ohio Metal (copper-bearing) steel. It is supplied in lap and slip joint, single and double bead, made in one-piece without cross seams in sizes 3½ in., 4 in., 5 in., 6 in., 7 in. and 8 in.



One piece Corrugated Conductor Pipe Elbows and shoes



Hinged hooks plain or corrugated for brick or wood



Round hooks wired



Galvanized Steel Wire Eavestrough Hangers

For further details and literature, write to: **WHEELING CORRUGATING COMPANY, WHEELING, W. VA.**

CALIFORNIA WHITE AND SUGAR PINE MANUFACTURERS ASSOCIATION

600 Call Building
SAN FRANCISCO, CALIF.

Association Membership and Organization:

The pine lumber manufacturers of California and the Klamath Falls, Oregon, district form our membership. This Association is not a sales organization. The mills have associated themselves together to promote efficiency in manufacturing, uniform grading, and the dissemination of information pertaining to the proper uses of their product.

Services:

A trade extension department is maintained to assist architects, builders, manufacturers, dealers, and consumers in all matters relating to the proper use of these woods. Architects and builders are requested to write us for information relative to their uses for lumber or its reworked products. We will advise the kinds, grades, and sizes of lumber we recommend for specific uses.

Forest Resources and Production:

The forests in which these mills operate contain approximately 250 billion feet of timber, as follows:

California white pine	105 billion
California sugar pine	32 billion
California white fir	33 billion
California Douglas fir	50 billion
California incense cedar	9 billion
Other species	24 billion

The annual production of this region is approximately 1½ billion board feet, divided about as follows:

California white pine	855 million
California sugar pine	270 million
California white fir	225 million
California Douglas fir	90 million
California incense cedar	30 million
Other species	30 million

At the present rate of cutting, the available supply should last for nearly two centuries. However, new growth is now adding a quarter-billion feet annually to the supply, thus insuring a continuous production of lumber.

Sizes:

These woods are manufactured in sizes that conform with AMERICAN LUMBER STANDARDS.

Grading and Inspection:

California white and sugar pine lumber is uniformly graded at Association mills under the standard rules of the CALIFORNIA WHITE AND SUGAR PINE MANUFACTURERS ASSOCIATION, which are in close conformity to AMERICAN LUMBER STANDARDS.

The Association maintains an efficient corps of inspectors continually supervising and checking the work of the mill graders, thus insuring to purchasers of California pine products, lumber of uniform manufacture and quality.

Where White and Sugar Pine May Be Purchased:

California white and sugar pine are available in the forms of yard lumber, and as doors, sash, ready-cut frames, trim and mill work, and can be procured from retail lumbermen, jobbers, planing mills, and sash and door manufacturers.

Characteristics:

Following are the characteristics of California white pine and California sugar pine.

Typical Characteristics:

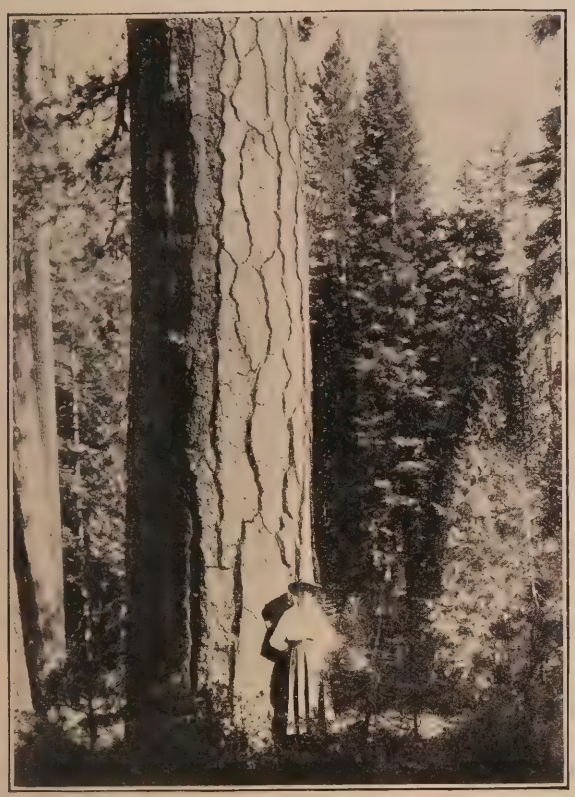
Texture—Soft and workable.
Grain—Close, even and uniform.
Weight—Light.
Color—Pale, light tones.
Surface—Smooth and satiny.
Structure—Minute cells, regularly formed, evenly spaced, and with little pitch or resin.

Service Characteristics:

Ample strength and durability beyond requirements of use.
Non-warping, non-swelling, non-shrinking.
Non-checking.
Non-splitting.
Non-grain-raising.
Takes enamel and paint perfectly.
Requires fewer coats of enamel or paint.
Does not discolor enamel and paint.
Cuts easily and smoothly, with or across the grain—easy to fit hardware.
Holds nails and screws firmly.
Paint does not peel off.

Uses:

Both California white and sugar pine are used extensively in building construction and finish for the following purposes:
Doors, interior and exterior.
Window sash.
Window and door frames.
Interior finish and trim.
Interior panels.
Mouldings.
Ceilings and partitions.
Built-in cabinets, book-cases, tables, seats, shelving, etc.
Exterior siding.
Exterior trim.
Porch columns.
Sheathing.
Subflooring.
Framing.
Lath.
Farm buildings.
Concrete forms.
Boxes.
Crates.



The Species "Pinus Ponderosa" (California White Pine) Attains Its Largest and Finest Growth in the California District.

CALIFORNIA WHITE PINE

WHY CALLED "CALIFORNIA WHITE PINE"—The botanical name of this wood is *Pinus Ponderosa.* The name of "California White Pine" was given to it because of its color and softness, long before it was shipped East and became a general commercial wood.

The physical properties of California white pine, as demonstrated in tests made at the United States government Forest Products Laboratory, Madison, Wisconsin, and its uses, align it with eastern white pine.

Characteristics of Growth in California:

The species of soft pine from which California lumber is obtained grows over the entire western mountain section of the Sierra Nevada Mountains, from California south to Mexico, and north into British Columbia. However, a species of tree growing over so wide a range often attains its most perfect growth in one particular region.

This region, for *Pinus Ponderosa,* is California and the Klamath Falls, Oregon, district, including both the eastern and western slopes of the Sierra Nevadas and the Siskiyou Mountains. Here the winter snows deeply cover the tree's roots, and the summer sun bathes the trees in a flood of warmth, causing the trees to attain their largest size and finest quality.

California white pine reaches its most perfect growth at altitudes of 3500 to 6000 ft.

The California white pine trees grow tall and straight to a height of 125 to 175 ft. with an average diameter from 3 to 4 ft., though individual trees reach a height of 200 ft., and a diameter of 8 ft.



A CALIFORNIA SUGAR PINE MONARCH OF THE FOREST

This tree was 9 ft. 2 in. in diameter above the swell of the butt. The first 16-ft. log scaled 6200 board ft.; the second scaled 5280 board ft. The whole tree produced 32,340 board ft. of lumber, enough to build two good-sized houses.

CALIFORNIA SUGAR PINE

A True White Pine—Sugar pine is, botanically and physically, a true white pine. It has five slender needles in each cluster, and the clusters occur in feathery tufts at the ends of graceful branches, as do those of its eastern relative, the white pine of New England and the Lake States.

In cell structure sugar pine is also a white pine. The longitudinal cells are uniform in size and regularly spaced. The radial cells have smooth walls. There are no alternately hard and soft rings in the wood.

Tests on sugar pine made at the Forest Products Laboratory, at Madison, Wisconsin, speak volubly of its excellence, and show it to be almost identical in many of its most important qualities with the white pine of the East.

Characteristics of Growth:

Sugar pine grows chiefly in California at elevations of from 3000 to 9000 ft. The largest trees and heaviest stands are found on the western slope of the Sierra Nevada Mountains.

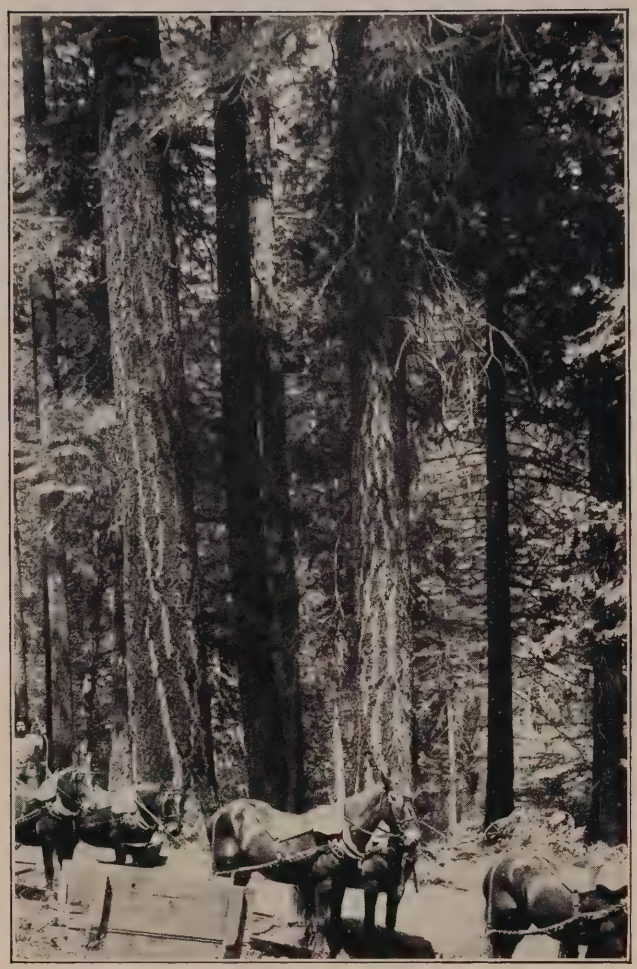
Sugar pine is the largest of the numerous pine family. It has a tall, straight trunk with a rich purple-brown or cinnamon-red bark. It grows, ordinarily, from 150 to 175 ft. high and from 4 to 5 ft. in diameter, though occasional specimens 230 ft. high and 12 ft. in diameter are seen.

The tree is exceptionally free from disease, and this, as well as its large size, makes possible the production of large quantities of lumber of high quality which can be seasoned without checking or warping.

Special Uses for Sugar Pine:

California sugar pine is especially valuable in those parts of the building that are exposed to extreme weather conditions, as well as for certain industrial purposes where the wood requirements are most rigid. The extremely fine characteristics of sugar pine make it unsurpassed and most desirable for the following special uses:

	Patterns, foundry flasks	
Tanks and silos	Drafting tables	Organ pipes
Boat decking	Piano keys	Textile machinery



A TYPICAL STAND OF CALIFORNIA WHITE FIR

CALIFORNIA WHITE FIR

Uses:

Following are the more important uses of California White Fir:

Common Boards
- Concrete Forms
- Sheathing
- Subflooring
- Roof Boards
- Barn Boards

Dimension
- Concrete Forms
- Girders
- Joists
- Studs
- Rafters
- Plates
- Scaffolding

- Heavy Timbers
- Finishing
- Boxes

Characteristics:

Color: Grayish white.
Weight: Light.
Odor and Taste: None wnen dry.

Physical Properties:

Does not stain.
Texture: Moderately soft and uniform.
Durability: Good when kept dry.
Shrinkage: Very moderate.

Mechanical Properties:

In its mechanical properties, California White Fir compares closely with Sitka Spruce and Eastern Hemlock. In strength as a beam or post, in hardness and in stiffness, white fir is placed in the same class with spruce and hemlock. It is considered to have much the same shrinkage as hemlock, and a little less than spruce.

The value of this species is proven by its similarity to the Eastern hemlock, which, for many years, has been the principal framing lumber in many sections of the East.

Advantages in Use:

California White Fir has many advantages for its more important uses.

Light Weight and Easy Cutting:

The light weight and the ease with which White Fir may be cut and handled are important for rapid, efficient construction. A carpenter working with this wood will do more and better work than when using a heavier, harder wood.

Seasoning:

The fact that this lumber is seasoned at the sawmill is of importance to the retail lumber dealer and to the ultimate consumer. It reduces the cost of transportation and saves space in the retailer's yard. Seasoned lumber can be piled in from one-third to one-fifth the space required for green lumber. Furthermore, loss from defects which develop during seasoning need not be borne by the dealer. There is no danger that this lumber will be put into a home while still green—a fact which means less settling and distortion of the framework, gives greater holding power to the nails, and constitutes a protection against decay.

Dressing:

Dressing lumber at the sawmill after it has been seasoned is also important to dealer and user. Wood, even of the same species, does not shrink uniformly, and lumber which has been dressed while green will be found of varying thickness and widths after it dries. This is especially important with lumber dressed to a tongue and groove, or shiplap pattern, and with dimension lumber. Framing lumber that has been dressed green requires more work on the part of the carpenter to secure level floors and walls of uniform thickness. Floor joists that have been dressed while green and seasoned afterwards are often found to vary from ¼ to ½ inch in width. Another important factor in dry dressing is that lumber dresses much more smoothly than when run green. It is also free from the dust and dirt which is apt to collect during the seasoning process, and presents a clean, smooth appearance to the buyer and user.

Knots Are Tight:

Generally speaking, the knots in White Fir are comparatively tight. This is of particular importance in the use of this wood for concrete forms, sheathing, sub-flooring, barn boards and many other uses. Many of the knots are encased, but fixed in position.

Beautiful Birch—for Beautiful Interior Woodwork

Manufactured by Members of

NORTHERN HEMLOCK & HARDWOOD MANUFACTURERS ASSOCIATION AND ROTARY BIRCH CLUB

231 F. R. A. Building, Oshkosh, Wis.

Products:

Birch Lumber and Birch Rotary Cut Veneer made from unequalled stands of Yellow Birch **(Betula Lutea)**, in the great hardwood forests of Michigan and Wisconsin, also known as gray birch; and from Sweet or Cherry Birch **(Betula Lenta)**.

Beautiful birch

TRADE MARK

Description:

No distinction is made between these closely similar species, as a rule. Both species produce lumber sold commercially as unselected or mixed color birch, selected red birch and selected white birch. Red and white birch are not different species as the red birch is the slightly reddish heartwood, and white birch the outer part of the same tree. Unselected or mixed color birch is the run of the lumber from the log containing both the white and red. The sapwood takes stains as readily as the heartwood—in this respect differing markedly from other important finishing woods.

It is not necessary to specify "selected" birch to obtain very satisfactory results in mahogany, walnut, or similar stains. The mixed colors in the unselected birch blend perfectly after the stain is applied, producing a uniform even color effect as required.

Unselected birch can be obtained for considerably less in price than strictly selected red or white, as the quantity of red or white birch obtained from the log is comparatively small. However, in rotary cut birch veneers, it is possible to obtain a larger proportion of red or white veneer than in sawn lumber.

A beautiful variation, especially in veneers, called Curly Birch comes from selected logs, either in red or white or unselected. It commands a premium and "unselected" should usually be used.

Birch being an extremely close grained wood produces rotary cut veneer not subject to checking. It is not necessary to specify sawn veneers on doors or other cabinet work to assure against the objectionable checks which later develop in many other cabinet woods or so-called cabinet woods.

Birch reaches its best development as a tree in the hardwood forests of Wisconsin and Michigan. Conditions there produce a very hard, smooth grained wood. Specify "Grown in Wisconsin or Michigan." The great bulk of birch lumber originates in these two states.

Hardness:

Birch is one of the hardest of the hardwoods. Under tests in the U. S. Forest Products Laboratory at Madison, Wisconsin, it required a pressure of 1320 pounds to embed an 0.444 inch steel ball one-fifth of an inch into the side grain of air-dried birch. This test is most important, as the forces of wear and indentation ordinarily come against the side grain of a wood used for interior trim, doors and furniture. The hardest of hardwoods is most economical in the long run, both in public buildings and private homes, because the fine finished appearance of the surface can be retained only by this quality of extreme hardness. Birch has it as shown above in high degree.

Strength:

In all these tests for strength at the U. S. Forest Products Laboratory—static bending, impact bending, compression parallel to grain and tension perpendicular to grain—birch ranks first among commercial hardwoods. In the tests for compression perpendicular to grain and shearing strength parallel to grain, birch compares favorably with other quality hardwoods.

Beauty:

With the qualities of hardness and strength, birch combines that of beauty. It has a very handsome figured grain, is capable of taking a high finish and retaining it. Birch looks equally well, whether plain, or quarter sawed. Rotary cut birch veneer usually serves all purposes which demand highly figured wood in broad surfaces, such as panels, etc.

Interior Trim:

Birch has won recognition in trim as being a fine hardwood, of very handsome figured grain, and capable of high finish. It is in use not only in a multitude of residences and apartments, but also in very many hotels, office buildings, etc., of the highest class, for both trim and doors.

Birch Rotary Cut Veneers:

Birch rotary cut veneer is especially adaptable to doors and panel work of all kinds and is widely used in wainscoting and for fixtures, store window backing, etc. It is not subject to checking because of the extremely close grain of the wood and in this respect is superior to most other cabinet woods from which only sawn veneers can be safely utilized.

Doors:

Birch veneered doors are usually specified with a standard ⅛-inch veneer on the frame of the door applied to a softwood core. Panels can be 3 or 5-ply in thickness. Names of manufacturers specializing in birch doors sent on request.

Birch Flooring:

Birch flooring is comparable in service value with maple flooring, having nearly the same physical properties, including hardness. It comes either in red or unselected. Selected red birch floors are very desirable in most schemes of interior decoration, especially with trim of birch or mahogany. For grades, sizes and specifications, see listing in this Catalogue under the Maple Flooring Manufacturers' Association. Pages 180-81.

Finishing:

Birch lends itself perfectly to the production of any effect in finish which can be applied to a first class hardwood. To several beautiful finishes it is better adapted than any other wood—notably to gray and brown acid staining. It is also frequently and successfully used in place of red or brown stained mahogany. Birch in a natural finish is also much admired.

Because of the small size of the pores, a filler is usually not employed. If a dark filler is used, the pores can be made conspicuous, giving the wood additional figure. Rubbed, or rubbed and polished finishes, give fine results with birch. The user of birch should always remember that he is handling a high class hardwood, whose peculiar richness of tone and figure is worthy of painstaking treatment. It is of just the right density and texture to form a superior base for white enamel, for which unselected grade is recommended.

Information:

A handsome book on Birch and Its Uses, and any specific information or assistance required will be gladly supplied on application.

The new 60-page "Where and Why" book is a reference work for every builder. Though primarily devoted to hard maple, it contains comparative statistics and tables of official strength and other tests of birch, maple and other hardwoods. Concise and authentic. Sent promptly on request.

Co-operation:

The Northern Hemlock and Hardwood Manufacturers' Association and The Rotary Birch Club will be glad to put inquirers in touch with our members, and with manufacturers of birch doors, trim, veneer, etc.

As hard maple, soft maple, birch, beech, hard and soft elm, basswood, ash, white cedar, white pine, Norway pine, balsam, hemlock and tamarack all grow in the great Northern forests of Wisconsin and Michigan, manufacturers of "Beautiful Birch" also produce many or all of these woods.

Complete data and detailed information about any of these species is gladly furnished on request.

WESTERN RED CEDAR

Made by Members of
RED CEDAR LUMBER MANUFACTURERS' ASSOCIATION
4449 White-Henry-Stuart Bldg.
Seattle, Washington

"Western Red Cedar" — "The Wood That Nature Armed Against Decay"

Products

RED CEDAR LUMBER for Siding, Flooring or Porch Decking, Lath, Lattice, Mouldings, Screen-stock, Porch Columns, Newels, Finish and Common Timbers.

Qualities

Western Red Cedar possesses several valuable properties. Perhaps its marked resistance to decay and insect attack are the most noteworthy. The wood contains a natural preservative oil and is entirely free from resin or pitch. It is much used in parts of the Orient where proof against insect attack is a primary consideration.

Because of its soft texture, Western Red Cedar is very easily worked. Compared with many other woods it admits of definite savings in the cost of handling. It admits of nailing without splitting, especially when square-cut or triangular pointed nails are used.

Another important property of Western Red Cedar is its ability, when properly dried, to stay in place. In common use it has been tested under the most adverse conditions of climate and exposure and has never yet failed to hold its place.

For Paints or Stains

Western Red Cedar takes finish well. Where it is used with an oil or any other form of natural finish its warm tone helps to produce a very pleasing effect.

Paint spreads well on Western Red Cedar, the silky finish of which affords an almost ideal surface, yet the wood holds the paint without crawling.



Siding

Western Red Cedar siding is rapidly becoming known as the outstanding material in this class.

The fact that Western Red Cedar does not end shrink makes it the most desirable of all woods for siding. It is particularly adaptable to the modern trend towards mitered corners because it stays put.

Western Red Cedar Siding's great dependability stands out sharply at the danger points—the joints, mitered corners, frames, and where boards lap.

Sizes of Siding

Western Red Cedar siding is made in the following sizes: ½x4, 5, 6, 8 and 10 inches and ¾x8, 10 and 12 inches. These are bevel sidings in which the ½-inch stock is ½ inch on thick edge and 5/32 inch on thin edge. The ¾-inch material is ¾ inch on thick edge and 3/16 inch on thin edge. Finished widths are 3½, 4½, 5½, 7½, 9½ and 11½ inches. Standard lengths are multiples of one foot.



While the use of all sizes is quite common, of recent years there is a marked tendency toward the use of special combinations and some very fine treatments are being worked out with combinations of 4 and 6-inch widths with the other sizes. There is still room for further treatment along these lines, and, within reasonable bounds, there is hardly any limit to the possibilities.

Exterior Trim

The qualities which make Western Red Cedar highly suitable for siding also render it of value for other exterior work in building. For all outside trim Western Red Cedar has no superior and few, if any, equals.

Other Exterior Uses

For all outside work incidental to the building of a home, such as pergolas, arbors, summerhouses, garages, fences, lattice, window boxes, shutters, cold frames, greenhouses, etc., Western Red Cedar is second to none.

Interior Uses

Western Red Cedar has also many uses in the interior of a home. For any interior finish not subject to knocks or hard usage, it is excellent, but its soft wood is easily indented so it should not be used where likely to be marred.

For further details and literature, write to: **RED CEDAR LUMBER MANUFACTURERS' ASSOCIATION**
4449 White-Henry-Stuart Bldg. Seattle, Washington

RITE-GRADE SHINGLES

Made by Members of the

RITE-GRADE SHINGLE ASSOCIATION

4449 Stuart Building

Seattle, Washington

Rite-Grade Inspected Red Cedar Shingles, manufactured by a large number of the leading mills of the Pacific Northwest, are packed in various grades, according to strict rules and rigid grading standards enforced by frequent inspection.

Grade for grade Rite-Grade adheres to specifications much superior to those followed in ordinary practice; and it insures that the specifications are lived up to by its system of careful inspection.

All the standard sizes of red cedar shingles are manufactured and packed under the Rite-Grade brand, and its stencil on a bundle is an evidence that it meets the requirements of the strictest grading rules.

Grade Guaranteed

When you buy Red Cedar Shingles under the Rite-Grade Inspection mark, you are not simply buying shingles and taking the word of the individual manufacturer for the count and grade.

The best Red Cedar Shingles made—grade for grade—you are buying under the guarantee of an association of leading manufacturers.

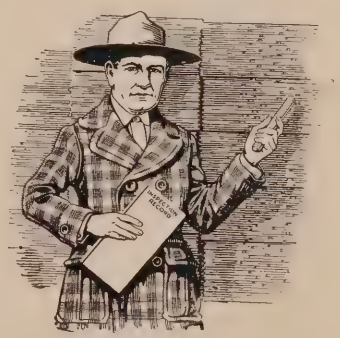
This trade mark—shown above—is your guarantee. It means that the shingles manufactured at the mills privileged to use this mark are constantly being inspected by Association inspectors, and that the shingles fully conform to the grading specifications for the grade stenciled upon the bundle, and that when laid according to directions will cover the amount of roof space indicated.



High Quality Timber

Western Red Cedar is generally recognized as the best material for shingles, because of its natural resistance to rot and non-warping qualities. But shingles must be sawed out of Red Cedar logs, and the human element plays a big part in the manufactured shingle just as it does in any other manufacturing process, so that no matter how high ideals a manufacturer may have, some employee can offset that by carelessness.

To overcome this, and to insure the trade and home builder with an absolutely reliable Red Cedar Shingle of the finest quality, the Rite-Grade Shingle Association has established a rigid set of grading rules and as the shingles of mills in this association are cut, they are graded carefully according to these rules, and the grade and covering capacity is stenciled upon every bundle.



The Rite-Grade Inspector

Most Careful Inspection

Association inspectors visit every Rite-Grade mill and check this grading accurately so that there can be no carelessness or "let down" in the uniformity of the grade.

The result is that in Rite-Grade Inspected shingles you get, grade for grade, the very finest Red Cedar Shingles it is possible to produce, manufactured with special care by well equipped modern mills and you know exactly the kind of shingles you are getting in each grade.

Choose Right Shingle for Right Place

Of course, if you want a roof to last the longest possible time you must select the highest grade of shingles. For some other purposes, such as side walls and less particular uses where it is desired to hold down the first cost, a lower grade of shingles can be used.

The important thing about the Rite-Grade stamp is that it insures your getting exactly what you buy.

Be sure that the Rite-Grade mark is on every bundle of shingles you order. It is your guarantee of quality.

This mark is the property of the Rite-Grade Shingle Association and can be used only by members whose products comply strictly with the Association rules. It is used in addition to the manufacturer's individual brand, which is his mark of identification.

The mark of Rite-Grade inspection is your protection. It absolutely assures you of satisfaction in the selection and purchase of Red Cedar Shingles.

"Tidewater" Cypress, "the Wood Eternal"

Manufactured by Members of

THE SOUTHERN CYPRESS MANUFACTURERS' ASSOCIATION

1348 Poydras Building,
NEW ORLEANS, LA.

1348 Graham Building,
JACKSONVILLE, FLA.

Products

"Tidewater" Cypress Lumber.

"Tidewater" Cypress Shingles.

"Tidewater" Cypress Lath.

Tupelo Mouldings and Trim.

Tupelo Flooring.

"Tidewater" Cypress

Trade-mark Guarantee—As a guarantee of quality, accurate grading and responsible methods of manufacture, builders should specify "Tidewater" Cypress, the true "Wood Eternal," identified by the Arrow trade-mark above.

Where It Grows—The species of Cypress commercially known as "Tidewater" Cypress, also Red Cypress, is the most valuable. It is distinctly a swamp tree and grows along the coasts, and in the lowlands within 200 miles from the seaboard, of the Atlantic Ocean and the Gulf of Mexico, from Virginia to Texas. "Inland" or "Upland" Cypress does not possess the characteristic qualities of "Tidewater" Cypress in any desirable degree.

Durability—"Tidewater" Cypress possessing a natural preservative, is one of the most durable of American woods. This statement applies specifically to the heart wood. "All-heart" grades should be specified where high resistance to decay-producing agencies is required—such as contact with the soil and when used in moist or humid conditions. It also "weathers well."

Color—The color of "Tidewater" Cypress varies from slightly reddish to a deeper red and from this, all the way to almost black, giving rise to such names as Red and Black Cypress. The color of the sapwood is usually much lighter than the heartwood. Much "Tidewater" Cypress is vari-colored—frequently marked by various color zones from slightly red to almost black. The safest specification is "Tidewater" Cypress, identified by the Arrow trade-mark.

Strength—In strength, like in weight, "Tidewater" Cypress is intermediate between heavy and light pines, indicating a good average strength.

Other Physical Properties—From the builder's standpoint, other characteristics of "Tidewater" Cypress worthy of mention are, ease of working, freedom from splitting, checking and warping when properly dried, and good nail-holding power. "Tidewater" Cypress, other than "Pecky," has very few defects except knots and occasional wormholes, and can be counted upon to have a very high percentage of flawless boards or timbers.

"Pecky" Cypress—It is the term applied to boards or timbers having the peculiar disease common to the heartwood of many Cypress trees. On the cross section, the board appears to be full of holes and on the surface, looks as if it had been gouged. This is a defect only in the sense of appearance and strength and its durability is practically as great as that of sound wood. The Pecky disease in no way detracts from the usefulness of "Tidewater" Cypress where exposure and not strength is the prime requirement, as in foundations and sills. At the present time, "Pecky" Cypress is in great demand for interior trim because of its antique appearance and the picturesque effects to be secured from such use.

Varied Utility—"Tidewater" Cypress having been used for many years, evidence of its fitness for numerous purposes is overwhelmingly large. A few of the more general uses are given in following paragraphs:

Interior Uses—For interior finish, its ease of working, straightness of grain, non-resinous nature and the fine, wide, clear sizes obtainable, make the higher grades of "Tidewater" Cypress one of the best woods for mouldings, doors, sills, panels, sash, casings, etc. As it shrinks or swells imperceptibly when properly dried, "Tidewater" Cypress is especially desirable for doors where its fine-figured grain contributes to beautiful and artistic effects. The "Clear Heart" grade is recommended for best quality stain or natural finish and the "A" grade for ordinary stain finish or best enameled work.



"Tidewater" Cypress used for the siding, porches, shutters, cornices and all exterior trim for this distinctive suburban home. Designed by Messrs. Granger and Bollenbacher, Chicago.

Exterior Work—On account of its great durability and weather resisting qualities, Cypress excells for all exterior work and for uses in contact with soil, such as foundation timbers, sills, girders, siding, doors, jambs, facings, window shutters, cornices and for porch construction—flooring, columns, railings, steps and foundation supports.

For painting, the "B" grade of Cypress is suitable for the usual run of exterior millwork and finish, and the "A" or "Clear Heart" grade for best quality work.

Shingles—"Tidewater" Cypress is especially adapted to shingles. They have extraordinary durability and possess the added virtues of having more wood in them and of weighing more than any other shingle now on the market. They are sold as dimension shingles, as well as in random widths, and always full count, 4000 lineal inches to constitute 1000 shingles.

Lath—In addition to the characteristic qualities of non-shrinking and non-warping when properly dried, and ease of working with good nail holding power, "Tidewater" Cypress lath has the further advantage of not showing through plaster, a particularly valuable quality where light tints are to be employed.

"Tidewater" Cypress, "the Wood Eternal" (continued)

Farm Uses—Because of its wearing and lasting qualities, "Tidewater" Cypress is the most economical lumber to be used, figured over the years, for fencings, posts, water troughs, well curbing, silos, incubators, barns, hog houses, poultry houses and sheds.

Imparting no odor, taste or color, and being almost non-porous, it is unexcelled for water tanks and for use in dairies.

Greenhouse Construction—In greenhouses, "Tidewater" Cypress is an invaluable wood because of its resistance to decay. The entire woodwork of some of the best greenhouses—ridge poles, supports, sash, siding, benches (the latter of "Pecky")—is of "Tidewater" Cypress. It is equally adapted for all forms of cold frames and is much used for flats and flower boxes.

Miscellaneous Uses—"Tidewater" Cypress has also come much into use as a seating material for public and university stadiums, and for the construction of grandstands and bleachers for baseball parks and fair grounds and the like.

"Pecky" Cypress is suitable where rustic effects are desired, such as seating for parks; pergolas, etc. It is also adaptable for culverts, underground work or work in damp places, planking for small bridges, barn floors and foundation timbers.



Fine Pergola Entrance to Estate of J. Wade Tucker, Esq., Kissimmee, Florida. Constructed entirely of "Tidewater" Cypress as is the adjoining fencing and the magnificent home in the background.

Painting—For both exterior and interior work, "Tidewater" Cypress can be painted without special preparation and with complete satisfaction.

Natural Finish—But as the charm of modern construction is in the use of the natural wood, "Tidewater" Cypress, on account of the beauty of its grain and variety of its rich shadings, should be varnished and finished in the natural.

Staining—"Tidewater" Cypress can also be stained with great success. In imitation of mahogany—becoming even more beautiful than mahogany itself—or cherry, black walnut, the different oaks; or tinted any desired shade the most fastidious fancy may suggest.

Tupelo

Origin and Characteristics—Tupelo grows in proximity to and is often interspersed with Cypress.

Untreated Tupelo, however, does not have the same decay resisting qualities of "Tidewater" Cypress when exposed to moisture and the elements, but is well suited for interior uses. Tupelo has a closely interwoven, or involved grain, is uniformly white in color, does not sliver or splinter and is peculiarly adapted to uses where resistance to hard wear is the prime requirement. It is practically free from defects of any character.

Industrial Floors—Tupelo, because of its closely involved grain, which does not splinter or sliver, is much used for interior floors of industrial plants, warehouses, freight houses, for covered platforms, etc. Heavy trucking and traffic only tends to pack its fiber and to make it more solid and smoother as time goes on. It should not be used for exterior platforms and the like without being treated with a preservative.

Residential Floors—The same characteristics which recommend Tupelo for industrial flooring, plus its clear white uniform color, make it a very desirable flooring material for residences. Perfected methods of manufacture and kiln drying have made Tupelo a superior product. For appearance and cost it is probably the best flooring for the moderate priced home on the market today.

Mouldings and Trim—Tupelo is extensively manufactured into mouldings and other interior trim. Its uniform white color, close grain, freedom from defects and tendency to splitting, and ability to hold nails tenaciously, make it a desirable wood for this purpose.

Tupelo does not raise its grain in the process of finishing and, therefore, provides an exceptionally smooth surface that takes and holds enamels nicely and can be stained effectively. It is especially adapted where a highly glossed finish is desired. And, its very moderate cost likewise recommends it where price must be taken into consideration.

Literature and Information

To meet the constantly growing demand from architects and builders for detailed information, we have compiled a concise, authoritative, technical treatise on "Tidewater" Cypress, covering its qualities, grades, uses and relation of grades to uses, painting and finishing, together with suggested specifications for standard uses. Architects and builders, who have not received a copy of this data for their files, are invited to write for it.

Our booklet on Tupelo—its characteristics and uses, also merits a place in your files for reference.

Architects and builders are invited to write freely as to any special requirements, references to highly satisfied users for specific purposes, or for any other assistance that we can give on special problems.



"Tidewater" Cypress Shingles were used as siding with fine effect, and the usual superior economic results, on all buildings of the late Senator Medill McCormick's farm estate, Byron, Ill. Mr. Alfred Hopkins, New York, architect.

For further details and literature, write to: **THE SOUTHERN CYPRESS MNFR'S. ASSN.** NEW ORLEANS, LA., or JACKSONVILLE, FLA.

Tidewater Cypress

Annual Production 200 Million Feet

Southern Hardwoods

Produced By

GULF RED CYPRESS COMPANY
SAVANNAH, GEORGIA

Short Leaf Pine

Planing Mill Capacity 125 Million Feet

The following is quoted from a Government Report on Cypress—see U. S. Department of Agriculture, Forest Service Bulletin No. 95.

EXTERIOR AND INTERIOR FINISH

"Cypress is put to almost every use as an interior trim for houses. It may be finished in natural color or stained. The wood contains little resin and thus affords a good surface for paint, which it holds well. It is much used for door frames, window frames, transoms, ceiling, wainscoting, panels, doors, sash, balusters, inside blinds, brackets, newel posts, grilles, mantels, and to some extent for flooring. It is a popular wood for kitchens, where it is subjected to dampness and heat. It shrinks, swells, or warps but little, and is used for drainboards, sinks, kitchen and pantry tables, cupboards, and kitchen cabinets. For the same reason it is used for breadboards asd wooden implements about the pantry, ironing boards and clothes driers.

"For the parts of houses exposed to the weather it serves equally well. As siding it practically wears out before it decays. When made into porch and portico columns it retains its shape, holds paint, and has sufficient strength to sustain necessary loads. It is placed as cornice, gutter, outside blinds, pilasters, and railing, and is much used for porch floors and steps.

We solicit your orders for straight or mixed cars of Cypress, Southern Hardwoods and Short Leaf Pine, either rough or dressed.

FARM LUMBER

"Much cypress lumber is employed in the construction of silos for strong green feed. The farmer puts the wood to many uses, in all of which it gives good service. Its lasting properties fit it well for curbs, when material is needed that resists decay. Watering troughs for farm stock and feed troughs for sheds and barns are made of it; likewise troughs or flumes for conveying water from wells or springs. Resistance to decay fits it for stable floors and timbers near the ground, as well as for fences, gates, and especially for fence posts and telephone poles. It is one of the best available woods for picket fences, because it shows paint well and holds it for many years, but lasts a long time without it. It has been widely used for this purpose not only in the South, where cypress grows, but in regions remote from its range.

USE IN GREENHOUSES

"One of the widest uses of cypress is in greenhouse construction. It is pre-eminently fitted for that trying place, where it is called upon to resist dampness, excessive heat, and all the elements that hasten decay. It is said that no other lumber approaches cypress in the quantity used for green and hot houses. It is manufactured into sash, frames, benches, boxes, and practically all else that the builder needs. It has replaced white pine to a large degree, because it is cheaper and in some ways better."



CORNELL UNIVERSITY STADIUM, ITHACA, NEW YORK—SEATS OF TIDEWATER CYPRESS

The resistance of Cypress to decay, particularly when exposed to dampness, has led to its being used for seats in the Stadium pictured above and in Stadiums at Washington and Lee University, Lexington, Virginia; University of Illinois, Champaign, Illinois; and U. S. Military Academy, West Point, New York.

For further details and literature, write to: **GULF RED CYPRESS COMPANY, Savannah, Georgia**

Grade-Marked Northern Hemlock for Strength and Stability

Manufactured by Members of

THE NORTHERN HEMLOCK MANUFACTURERS

of Michigan and Wisconsin

341 F. R. A. Building, Oshkosh, Wis.

Grade-Mark N 2 H Trade-Mark

Look for it at the end of every board or piece

Products

Michigan and Wisconsin Hemlock lumber, dimension, lath, drop siding and ship lap.

Grade-Mark, Trade-Mark Guarantee

Responsible manufacture and rigid grading under the strict grading rules of this Association, with every piece plainly marked by the expert grader at the mill.

All lumber guaranteed to conform with the American Lumber Standards.

All load-bearing dimension (studding, rafters and joists) extra standard size—more wood and strength to the piece, insuring greater strength and rigidity when used for framing.

The principle of grade-marking lumber has been acclaimed by Secretary Hoover as the most advanced step taken by the lumber industry in the public interests and has been endorsed by competent architects and builders; also, by progressive retail lumbermen. It will develop scientific lumber utilization —the use of the right grade for each purpose; practical forest conservation.

Northern Hemlock Grade-Marks— What They Mean

The initials **N** and **H** of the design signify that the lumber, to which the mark is applied (on the face of each piece near the end), is **Northern Hemlock**—your native building lumber.

The numeral within the diamond indicates the grade of the piece on which it is stamped by the expert grader at the mill.

N 1 H

No. 1 Northern Hemlock is marked as above.

N 2 H

You'll see above mark on No. 2 Northern Hemlock

N 3 H

Look for the mark above on No. 3 Northern Hemlock

N 4 H

and this mark appears on No. 4 Northern Hemlock

Northern Hemlock Grades are based upon the broad economic ground of their relative usefulness to you. The Grade-mark takes all the guesswork out of the selection of Hemlock grades for their proper uses.

Save money! Use the grade that fits the job. Buy by the grade-mark.

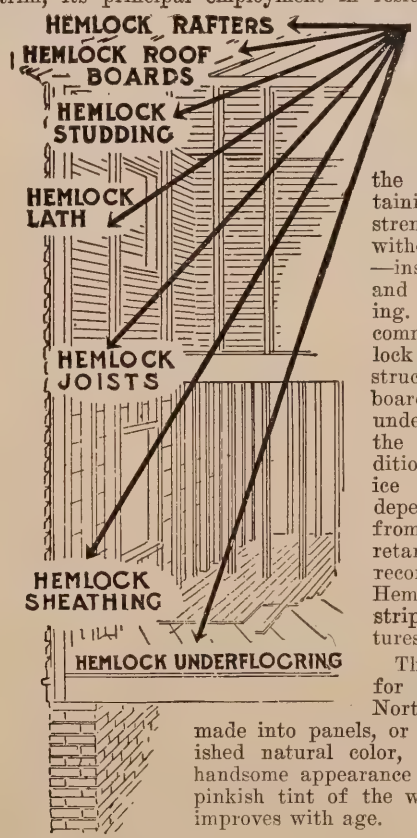
Ask your lumber dealer.

Physical Properties

Wood is light, of good average strength for its weight, easy to work, does not split readily and possesses remarkable nail holding power. Grade for grade, Northern Hemlock has fewer large, strength reducing knots than other structural woods. It is non-resinous and so takes and holds both paints and stains perfectly and without discoloration. Freedom of resin likewise makes it slow-burning. Immunity to dry-rot is an important factor in the service life of buildings. In color, the heartwood is light brown tinged with red, often nearly white, and the sapwood of darker color.

Principal Structural Uses

While the best grades of Northern Hemlock are manufactured into drop siding, ship lap and other items of exterior trim, its principal employment in residential construction is for the so-called "7 vital factors in building construction."



Here the Extra Standard Size studding, rafters, and joists (guaranteed by the grade mark) — containing more wood and strength to the piece; and without large, loose knots —insure great strength and rigidity to the framing. Immunity to dry-rot commends Northern Hemlock for those hidden structural parts — roof boards, lath, sheathing and underflooring — and upon the continuous good condition of which the service life of the building depends. This freedom from dry-rot and its fire retardent qualities, also recommend Northern Hemlock for furring strips in fireproof structures.

Though rarely used for inside finishing, clear Northern Hemlock boards made into panels, or similar work, and finished natural color, often present a very handsome appearance owing to the peculiar pinkish tint of the wood which ripens and improves with age.

Farm Uses

As a general farm purpose lumber, Northern Hemlock meets nearly every requirement and has been extensively used for barns, sheds, silos, milkhouses, hog and poultry houses, outbuildings of all character, plank walks, well curbing, fencing, etc., in the regions of its growth.

Co-operation

It is the aim of this Association to be of all possible help to builders and distributors. To this end, we have published a very complete set of practical building plans ranging all the way from a chicken house to a large cow barn (including a silo to be constructed from yard stock), and from a small Ford garage to a fine city residence. How can we help you? No obligation.

For further details and literature, write to: **The Northern Hemlock Manufacturers of Michigan and Wisconsin** 341 F. R. A. Building, Oshkosh, Wis.

Western Pine Manufacturers Association

Dept. 29, 510 Yeon Building
PORTLAND, OREGON

Pondosa Pine

The Pick o'the Pines

TRADE-MARK

Product

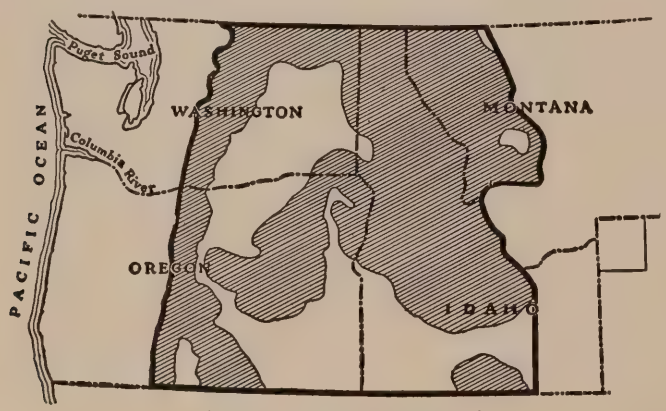
Pondosa Pine. Formerly marketed as "Western White Pine." Trade-mark on end grain.

Pondosa Pine

The finest lumber for all-around use. It is light, yet strong. It is easily worked. Takes nails without splitting. Pondosa Beveled Siding, with its very thin edge, illustrates just how unusual it is in this respect. Pondosa is beautiful lumber, yet most economical. Every trade-marked stick is rigidly graded, thoroughly seasoned and carefully milled. The fine grain and smooth surface are notable. Pondosa Pine takes a beautiful natural finish where desired. Paint penetrates its absorbent texture deeply and evenly, so that repainting is seldom necessary.

Source

Pondosa Pine, often called the "Sovereign of Softwoods," comes from the Inland Empire of the Great Northwest. In area the Inland Empire equals all New England, the Middle Atlantic States and Virginia—almost as much territory as the United States comprised at the end of the Revolutionary War.



THE INLAND EMPIRE

Over fifty million acres of it are in forests—capable of producing from the present stand of timber over 300,000,000,000 board feet of lumber. This does not reckon with new growth added each year.

Resources

The Western Pine Manufacturers Association comprises fifty great modern mills. Its closely supervised lumber grades have been standard in the territory for fifteen years. A uniformity of quality and service is always noted in Pondosa Pine, no matter which mill has produced the lumber. The Pondosa Pine country is served by five transcontinental railroads—the Great Northern, Northern Pacific, Chicago, Milwaukee and St. Paul, Canadian Pacific and the Union Pacific, providing ready, economical outlets for Pondosa Pine.

Grade Classification

Pondosa Pine, like all other woods, has its upper and lower grades. Some pieces are entirely clear and free from blemishes. Others contain knots and similar defects inherent in the tree itself. Classified according to use, it is divided into Yard Lumber, the kind used for general building purposes—Structural Timbers—and Factory or Shop Lumber, which lumbermen call a "cutting type" and which is used for sash, doors, etc. One of the chief aims of the Western Pine Manufacturers Association is to avert economic waste by effecting the use of the right grade of lumber in the right place.

Use

Doors, windows, frames, stairs, sash, moulding, interior and exterior trim, porch work, sheathing, siding, indeed any place where the specifications call for good, dependable lumber which is light, yet strong, is the place for Pondosa Pine. It is for sale at all good lumber yards.

Complete Information

Write for "Bingo of Flathead," a very interesting and instructive story of Pondosa Pine. Address Department 29, Western Pine Manufacturers Association of Portland, Oregon.

California Redwood Lumber, Siding, Finish, Millwork, Etc.

Produced by

THE PACIFIC LUMBER COMPANY

San Francisco
Robert Dollar Building
311 California Street

Mills at Scotia, California

Los Angeles
Standard Oil Building
10th and Hope Streets

Eastern Distributors
The Pacific Lumber Company of Illinois

Chicago
McCormick Building
332 South Michigan Avenue

New York City
Pershing Square Bldg.
100 East 42nd Street

Products

Redwood lumber, siding, finish, and millwork.

Distinctive Characteristics of Redwood

Redwood has many distinctive characteristics which highly recommend it for building purposes and particularly exteriors.

Texture

Redwood is light and soft, yet firm. Dry weight of wood surfaced is only 24 pounds per cubic foot. Has a close, even grain and is unusually free from knots and other defects. It works easily and holds nails well.



Residence at Plainfield, N. J.
Redwood siding painted white

Resists Decay

On account of a *natural,* odorless preservative which permeates the tree during growth, Redwood is highly resistant to all forms of rot and decay. A Redwood log buried in the ground for 600 years was found to be perfectly sound and was cut into first class lumber. It is unnecessary to treat Redwood with artificial preservatives.

Fire-Resisting

Owing to the absence of pitch and other resinous substances, Redwood is slow to ignite and offers unusual resistance to fire. There was conclusive proof of this in many instances during the great San Francisco fire in 1906 and in the fact that forest fires sweeping through the underbrush leave Redwood trees unharmed.

Non-Conductivity

On account of its peculiar cellular structure—layer upon layer of tiny hexagonal cells which become dead air spaces when the wood is thoroughly seasoned—Redwood is highly non-conductive to heat or cold, and is one of the best natural insulators known. (See illustration at bottom of column.)



Residence at Des Moines, Ia.
Redwood Colonial siding painted white

Color

The heart wood ranges from a light cherry color to mahogany—generally an old rose shade. The small amount of sap wood is a cream color.

Will Not Warp, Swell or Shrink

Properly seasoned, Redwood will not warp, swell or shrink, making it extremely valuable for many particular and exacting uses.

Excellent Painting Surface

It is not necessary to paint or stain Redwood to make it durable, but where the preference is for a painted or stained effect it will be found that Redwood will readily take any finish that any other wood will take, and some finishes that no other wood will take. The fine grain, smooth surface, absence of resin or pitch, and the walls of the minute air cells forming tiny anchorages, allow paint or varnish to penetrate thoroughly and to hold. The freedom of Redwood from swelling or shrinking tends to insure against unsightly cracks in enamel work.

Uses for Redwood

Exterior: Redwood used for exterior finish and siding, particularly in places exposed to the weather, action of soil moisture, and insect and worm activities, reduces the item of repair and maintenance to a minimum. Its rot and fire-resisting properties, uniformly even texture, non-warping qualities, ability to take and hold paint, make Redwood particularly adaptable for all outside construction where beauty, wearing qualities and long life are desired. It is particularly recommended for:

Siding	Newels
Clapboards	Lattice
Shingles	Greenhouse
Pickets	Fencing
Mudsills	Garages
Eaves	Buttresses
Gutters	Mouldings
Pergolas	Porch Rail

Window and Door Frames
Balusters and Porch Work
Porch Finishing Lumber
Porch Ceilings
Porch Columns
Finishing Lumber—Inside and Outside
Cornice Lumber
Sleeping Porches



The Redwood log shown imbedded in this stump lay buried in the soil for over six hundred years as indicated by the annular rings of the tree that grew over it. When dug up this buried log was found to be absolutely sound and free from decay.

Interior: On account of its natural beauty, absence of pitch, and high proportion of clear lumber, Redwood is adapted for many kinds of interior work.

Clear Redwood, having an unusually even grain and being free from knots, can be used to create beautiful effects without the necessity of selecting special pieces. Redwood can be obtained in extra-wide, clear boards, making it unnecessary to use veneered or built-up panels. It takes stains and other finishes readily and may be waxed, or left in its natural finish. High class enamel jobs, with hand rubbed finish, have lasted as long as twenty years without repainting.

Redwood Not High Priced

The price of Redwood compares very favorably with that of other woods used for similar purposes, for most of which uses Redwood's unusual adaptability and long life makes it really more economical. Being lighter than other woods, the item of freight is consequently reduced.

Trademark

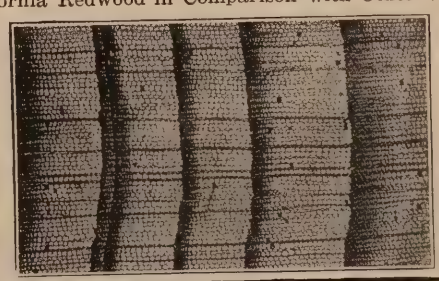
Wherever practical our trademark is placed directly upon the product. In cases where shipping tags are used the trademark appears upon the tag. All Redwood siding is plainly marked with the trademark, surface measure, grade and size. Door and window frames are stamped with trademark. Moulding bundles are tagged with trademark, total number of pieces, lineal measurements and pattern. Shingles in bundles are marked with trademark and grade.

Information and Service

All of our offices will be glad to consult with any builder concerning his needs and advise as to the suitability of Redwood and its economical use. Inquiries will receive prompt attention.

Interesting Literature on T. P. L. Co. Redwood

Contractors and builders are invited to send for any or all of the following literature: Construction Digest; Redwood Homes Plan Book; Physical and Mechanical Properties of California Redwood in Comparison with Other Woods.



Microscopic view of cross section of Redwood, showing the hexagonal-shaped cells, in "honey-combed" formation, which become dead air spaces when the natural moisture is removed by seasoning.

"Super-Standard" North Carolina Pine Lumber

THE WOOD UNIVERSAL

SOUTHERN PINE SALES CORPORATION

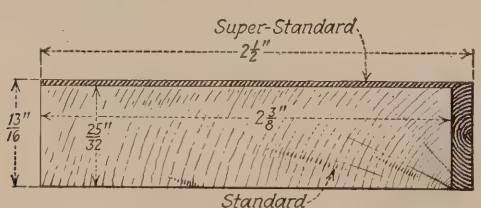
CHARLES HILL, General Sales Manager

Suite 1236 Woolworth Building, New York City



When is an inch NOT an inch?

The day has passed when it will do simply to specify a "one-inch thick" board. A one-inch rough *green* board and a one-inch rough *dry* board, both dressed alike (and allowing for similar shrinkage) result in decidedly different thicknesses of *finished lumber.*



The dark portions represent the excess of *Super-Standard* Lumber over standard—9.5% on a 1x3 board.

Only one inch of ROUGH DRY LUMBER will give you the

SUPER-STANDARD

Super-standard lumber has 5.26% more covering capacity than standard and sub-standard. It has 8.3% more thickness than sub-standard and 4% more thickness than standard.

Super-standard certainly deserves your consideration in buying your next bill of lumber.

Write for literature and lumber charts.

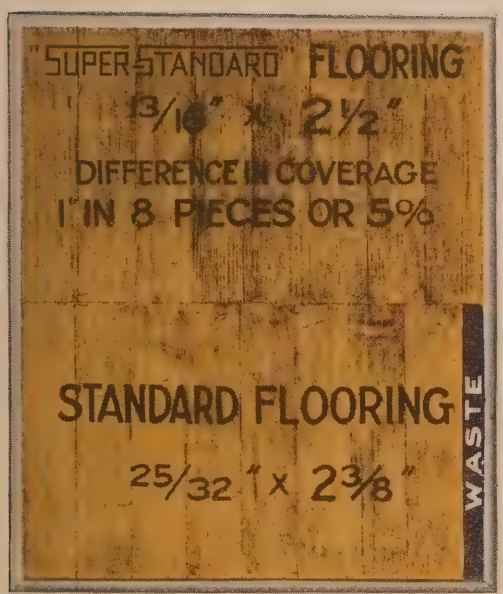
For further details and literature, write to: **SOUTHERN PINE SALES CORPORATION,** Woolworth Bldg. New York City

Southern Pine Sales Corporation

Suite 1236 Woolworth Building **New York City**

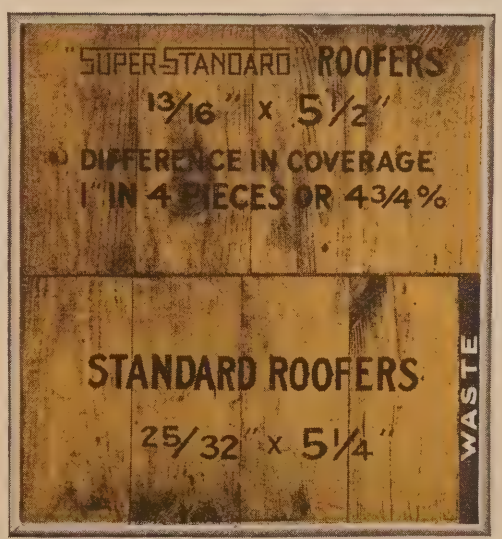
CHARLES HILL, General Sales Manager

NORTH CAROLINA PINE



Approved by the Department of Commerce.

Preferred in questionnaire addressed to retailers of forty-eight states.



Recommended by the Forest Products Laboratory.

Admitted by manufacturers to be the product of an inch board, commercially dry.

The Wood Universal

Wright Rubber Floor Tile and Stair Tread

Manufactured by

WRIGHT RUBBER PRODUCTS COMPANY

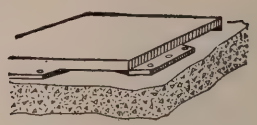
RACINE, WISCONSIN

Products:

Wright Rubber Tile Stair Treads and Cove Bases are made of a composition of rubber and other wear-resisting materials, prepared by an exclusive process to give long and satisfactory service. The tile is made both with and without Inter-lapping Flaps. These Flaps lock the Tile to the floor. Wright Tile Lays Flat and Stays Flat. Corners can't come up.



Trade Mark



The interlapping flaps of Wright Rubber Tile squares locks the Tile to the floor underneath the surface so corners can't come up.



Wright Rubber Tile may be used over either wood or concrete floors. Exclusive interlapping flaps insure flat, permanent floor.

Principal Uses

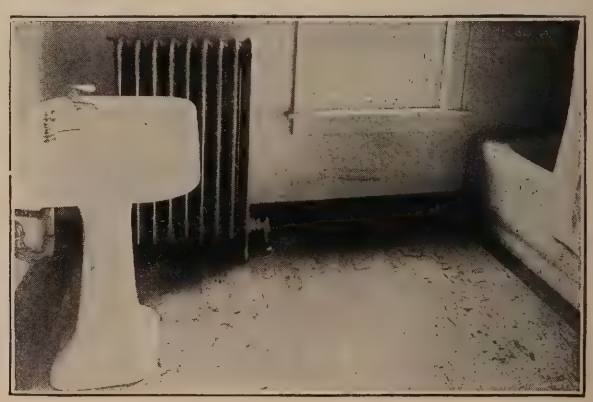
For covering the floors of sun parlors, kitchens, bathrooms, pantries, entrance and other halls, billiard and recreation rooms, or any room where a durable, clean, noiseless floor covering of fine appearance is desired. Because of its resiliency it is easy on the feet and greatly reduces breakage,—an important feature in kitchens. Being water proof it makes ideal floor for bathrooms and entrance halls.

Sizes and Patterns:

Wright Rubber Tile comes in standard sizes 4 inches square and 6 inches square, and in ¼ inch and 3/16 inch thicknesses. Borders come in strips 18 inches wide, cut to lengths 18 inches and 36 inches. It is not necessary to cut diagonal tile (used on floors layed diagonally) on the job because Wright Rubber Tile can be furnished in half tile sections. Both tile and borders may be had in a wide range of flat tone colors and mottled effects to harmonize with any surroundings. Many pleasing and novel effects can be had with Wright Rubber Tile.



The floor of this beautiful kitchen is laid with Wright Tile. Note the white strip between each tile. Easily cleaned and sanitary too.



Because Wright Rubber Tile is waterproof and non-staining, it makes ideal floor for bath rooms.

For further details and literature, write to: **WRIGHT RUBBER PRODUCTS CO., Racine, Wis.**

Wright Rubber Floor Tile and Stair Tread (Cont'd)

Easily Laid:

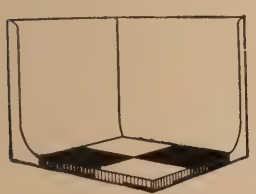
Builders and contractors find Wright Rubber Floors, Cove Bases and Stair Treads extremely easy to lay. No specialized, experienced labor is required. No special tools are necessary. Floors of Wright Rubber Tile can be easily and quickly laid and once laid, according to directions, they form a permanent, beautiful floor.

Wearing Quality

The toughness of the materials from which Wright Rubber Tiles are made give them remarkable wearing quality. Pavements layed several years ago show no appreciable wear today. No Wright Tile Floor has ever worn out. They cannot splinter, crumble or dust. Will not warp or curl. Not affected by temperature changes or contraction or expansion because tile is cured under 2500 lb. pressure at 330 degrees temperature.

Cove Bases

Cove Bases of Wright Rubber Tile come in sizes and colors to harmonize with walls and floors. Easily cleaned, remarkable durability, non staining.



Wright Rubber Tile is adaptable for use with all styles of fire-proof and sanitary bases, and with concrete, marble and terrazza borders.



Permanent Beauty—colors that harmonize with finest surroundings are qualities demanded of Wright Tile floors in this sun room.

Attractive Harmonizing Colors:

Wright Rubber Tile can be had in a variety of attractive colors that will harmonize with and improve the most artistic surroundings. Mottled and grained effects can be had in wide variety, in addition to solid colors. All colors are permanent as the color permeates the entire thickness of the tile leaving the coloring distinct and fresh after years of service, with the beautiful lustre often seen in some of the fine grained hard woods. These floors may be waxed and polished like wood floors too.



Wright Rubber Stair Treads laid over old stairs harmonize with rubber tile floor. Easily cleaned and long wearing.

Service Department

We will gladly furnish literature, layouts, and color-schemes and co-operate in every way, with building contractors. Send us plans of your next building and let us show you where rubber tile can be used to advantage.

Easily Cleaned

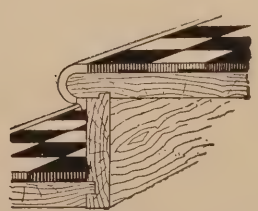
Wright Rubber Tile is easy to clean. Cleansing powders and scrubbing brushes may be used freely without injury to the tile. Or they can be wiped clean with a wet mop or cloth. As there are no pores, and all joints are closed and positively sealed with insoluble cement, there is no tendency to absorb water or harbor dust or germs.

Will Not Stain

Ink, grease, antiseptic solutions, and practically every other commonly known soiling or staining agent have no effect on Wright Rubber Tile which is non-porus.

Wright Rubber Stair Tread

This is a long wearing, sanitary, noiseless, non-slip, attractive covering for either new or old stairs. Furnished in either corrugated or smooth surface. Can be both cemented and nailed and used with or without brass nosing. Comes in 18 inch and 42 inch lengths, 12 inches wide. Molded to fit the contour of the stair, and can be had in plain, mottled or grained effects, in a wide range of colors.



For stairs, halls and entrances, Wright Rubber Tile is an ideal covering. Durable, noiseless and sanitary, it is restful to walk on.

For further details and literature, write to: **WRIGHT RUBBER PRODUCTS CO., Racine, Wis.**

MAPLE, BEECH and BIRCH FLOORINGS

MAPLE FLOORING MANUFACTURERS ASSN.

1067 Stock Exchange Building

Chicago, Ill.

Characteristics

Although Maple, Beech and Birch represent a versatile range as far as color possibilities and uses are concerned, the three woods are closely related in general characteristics.

Long Wear. All these woods are close-grained, hard-fibred, free from slivers and splinters. Friction merely polishes them, even increasing their wearing qualities. Test after test shows that Beech and Birch wear like Maple—and Maple outwears stone.

Cleanliness. Maple, Beech and Birch are exceptionally clean and sanitary, since the closeness of their grain and smoothness of their surface afford no lodging space for dirt or germs. They can be wiped smooth and clean easily and quickly with a cloth or an oil mop.

Natural Beauty. Due to their leadership in wearing qualities, these woods have sometimes been stressed for service uses, to the exclusion of any consideration of their beauty. Yet their rich beauty has been an important factor in making them the choice for fine homes, apartments, hotels and clubs everywhere.

Color Possibilities

Maple shows an attractive golden hue when waxed or varnished—it is literally a "floor of captive sunlight" which mellows and ripens with passing years. The rare beauty of Maple Flooring is apparent to everyone in ballrooms, where Maple is almost universally chosen for its beauty as well as for its cushioning comfort beneath gliding feet.

While Maple does not lend itself to staining, Beech and Birch, supplying qualities of endurance closest to those of Maple, will take a variety of stains which open opportunities for rich and distinctive color harmonies in flooring.

Staining Beech and Birch

It is important, in choosing a flooring wood for staining, to avoid any wood which has such a fibrous structure that prevents the even penetration of the stain. The grain pattern of both Beech and Birch is a delicate tracery, without fibrous ridges. Stains penetrate Beech and Birch evenly. Either wood makes an attractive floor and possesses a wearing quality which will make the attractiveness last.

The preference for dark floors in many residential buildings has therefore brought a rapidly growing use of Beech and Birch. Their hardness—plus their susceptibility to staining—sets them in a class by themselves for these particular purposes.

Individual Features

Maple. This flooring is dense, strong, heavy, very hard, and is supremely durable. The color of the heartwood is brownish and the sapwood is much lighter. The grain is close—sometimes curly or birdseye.

Maple has unusual ability to resist pointed pressure without abrasion. It takes a high polish but is too tight-grained for extensive staining.

Beech. This wood shows slightly more grain pattern than Maple and has slightly more color when varnished or waxed. In physical properties it is so like Maple that it is frequently used in Maple's stead. Beech takes a beautiful stain.

Birch. The ability of Birch to take color stain is well known. The fact that is ordinarily not known about both Beech and

Birch is that the natural wood takes a colorful finish and makes a beautiful and serviceable floor.

Faces for Various Uses

Maple, Beech and Birch are made in a variety of faces (widths) to fit each type of use. Those most commonly used in homes and apartments are the 2″ and 2¼″ faces.

There is a growing tendency among homebuilders, however, to use the wider (3¼″) or narrower (1½″) face, where certain special effects are desired.

For Colonial Homes—a wider face. The use of 3¼″ face flooring is particularly desirable in the Colonial home since this face reproduces accurately the wide flooring of the quaint old dwellings of a century past. 3¼″ face floorings, moreover, can be laid more rapidly and with less labor than the narrower faces.

For Dainty Effects—a narrower face. For rooms where an effect of daintiness is desired, 1½″ face is gaining wide favor. The narrowness of this face brings the sort of individual beauty so often found in objects finely made.

A New Floor over an Old. The most generally used thickness for Maple, Beech or Birch floorings in dwellings is 25/32″. However, there is a special "thin" flooring which can be laid right over an old floor, bringing new beauty as well as added value to the home.

This is a ⅜″ thickness. Such a floor can be laid without disturbing doors or woodwork. It is matched on sides and ends and all nailing is concealed. Its surface can be waxed or varnished. And the three woods offer every possibility of "color harmony."

Guarantee

MFMA Flooring is guaranteed by the Association to be properly graded and manufactured. Provision is made for inspection by an official inspector of the Association, should doubt arise regarding flooring manufactured under the MFMA trademark. Proper adjustment will be made in the event that the flooring does not conform to MFMA standards.

Free Literature

The following booklets are offered through the offices of the Association and will gladly be mailed free upon request:

"Color Harmony in Floors"
"The Floors for Your Home"
"How to Lay and Finish Maple, Beech or Birch Floors"
"What You Can Do with Wide Face Flooring"
"New Floors for Old"
"Three Native Hardwoods of Sterling Worth"
"The Floor which the Years will make Precious"
"Floors for Educational Buildings"

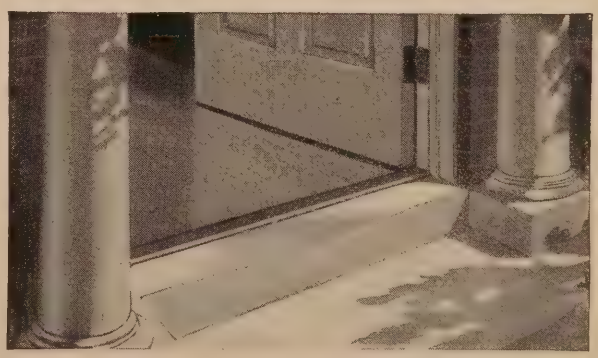
Slogan Floor *with* Maple Beech *or* Birch



Softwood Maple

A Contrast in Cleanliness and Comfort

A comparative illustration, showing how a softwood has worn alongside Maple, where both have been subject to the same traffic conditions for 18 years.



Maple Outwears Stone

A Maple floor and a stone sill—a familiar sight in older dwellings and store buildings. The step has worn away while the Maple flooring remains.

Oak Flooring Bureau

889 HEARST BLDG., CHICAGO



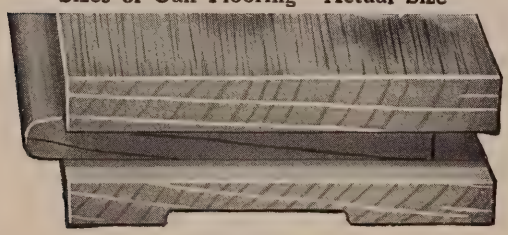
The Charm of Oak Floors

There is nothing more attractive in a home than a carefully laid and properly finished floor of Oak. The lustrous finish reflects the forms of furniture, and serves as a decorative background for rugs and hangings. Oak is the floor without a peer, the floor that needs no apology, but is universally accepted as the highest possible type of flooring.

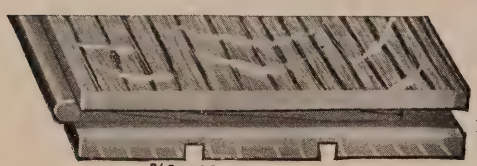
Oak Flooring has many outstanding advantages, not the least of which is the fact that the cost of Oak Flooring is within the reach of everyone who wants a floor of permanence, a floor of lasting beauty and distinction. Oak floors do not deteriorate with age, but become more mellow and beautiful as years go by. The natural grain and figure in oak is distinctive, and cannot be successfully imitated.

Either in natural warm tones, or in modern color finishes, oak flooring harmonizes perfectly with the scheme of room decoration desired.

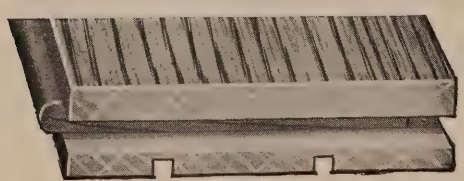
Sizes of Oak Flooring—Actual Size



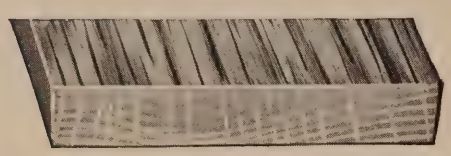
$\frac{13}{16}$" x 2¼" Face



⅜" x 2" Face



½" x 2" Face



$\frac{5}{16}$" x 2" Face-Square-Edge

Durability

Oak Flooring once laid solves the floor problem forever. An Oak floor will outlast the house itself and remain always the beautiful foundation of the room, its beauty lasting through the years to become a treasured heirloom from generation to generation.

Flooring strips are made to fit accurately, with tongue and groove manufactured according to standard measurements, making a tight continuous floor of unbroken surface. Strips are end-matched providing additional firmness in the floor.

Cleanliness

Oak floors are clean and sanitary and require very little effort to keep them in that condition—just a little freshening up at frequent intervals. There are no crevices to accumulate dirt or dust.

Economy

The first cost of an oak floor is practically the last. By selecting different grades for bedrooms and hallways than for principal rooms, the cost may be kept down to a very reasonable figure. With a little thought, combinations can be worked out that will keep the total flooring cost within a set limit of expenditure and avoid the substitution of flooring that lacks the beauty, durability and other advantages of oak flooring. The lower grades of oak flooring, so called, are just as durable as the higher grades.

For Remodeling Jobs

Lay Oak flooring over old worn ordinary floors. No woodwork need be torn up; the old floor becomes a useful subfloor. The cost for each room will be considerably less than that of many articles of furniture, and the result will be a permanent beautiful floor that will never need replacement.



Adding a Room

Turn the attic into a clean, attractive place for children to play, where they can romp to their heart's content, by laying Oak flooring over the rough boards.

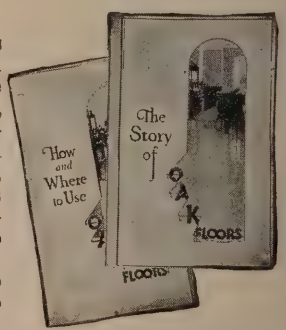
Increased Value

An Oak floored home is always worth more, whether for rental or sale, as oak flooring is recognized as a standard appointment in a modern home.

Write for Free Literature

"The Story of Oak Floors" is a 24-page book, illustrated in color, suggesting the proper use of different grades and finishes, and containing practical information invaluable to builders and their customers. Other literature, covering all technical matters is available for your files; also selling literature for you to mail to prospects.

Put your flooring problems up to our experts. We will gladly help you without obligation.



For further details and literature, write to: **OAK FLOORING BUREAU, 889 Hearst Bldg., CHICAGO**

BRUCE OAK FLOORING

Manufactured By

E. L. BRUCE CO.

Executive Offices, Memphis, Tenn.
Mills: Memphis, Tenn., Little Rock and Prescott, Ark.

Within Reach of Every Purse

For both the modest cottage and more pretentious home, there is a grade of Bruce oak flooring that will come within the cost estimated. The quality will be the highest, regardless of grade, as there is but one standard. Bruce oak flooring combines the natural beauty and durability of oak with accuracy of manufacture, and affords the careful builder with a room foundation that lays easily, fits snugly, and lasts indefinitely.

BRUCE

Trade Mark



Nature's Gift of Beauty



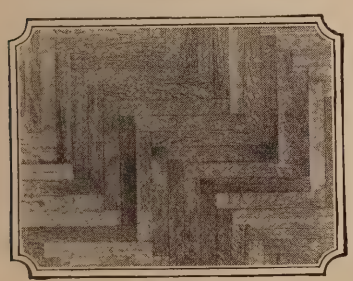
Richness and Dignity in Design Flooring

Variety in different rooms

By selecting different grades for different rooms, using both red and white, plain and quarter-sawn, the entire house may be floored attractively, at moderate cost. Further individuality is gained by laying Design Patterns in one or more principal rooms. Well-planned quantity production brings these distinctive designs within a figure only slightly greater than strip flooring. Pleasing variation may be obtained by combining design borders with strip centers. Write our technical department, without obligation, as to suitable grades, designs, and color finishes.

Remodeling

⅜" Bruce oak flooring will modernize an old home; lay it over the old ordinary floor, which becomes a serviceable sub-floor. No woodwork need be disturbed, except the quarter-round at the baseboard.



Chateau and mansion of olden days bear testimony to the supreme elegance of design pattern oak floors, now supplied by Bruce within reach of the most modest purse. The above is Herringbone, one of many handsome varieties.

Quality Guaranteed

Bruce oak flooring is made from most carefully seasoned lumber, in mills built expressly for its manufacture, equipped with the most modern machinery. Milling is uniform, and a minimum of sanding and scraping is required to obtain a well finished floor. With no cracks to hold dirt, a Bruce floor is sanitary and easy to keep clean, advantages which add much to the rental or selling value of homes.

Standard Grades and Sizes—Identification

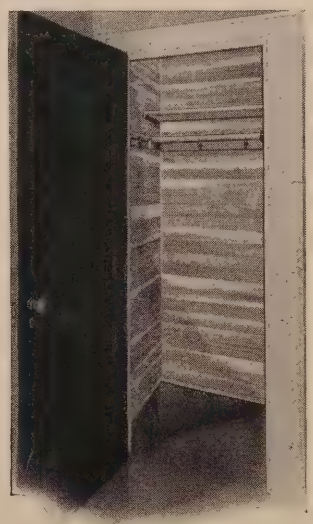
Grades and specifications of the Oak Flooring Mfgr's Ass'n are strictly adhered to. (See preceding pages.) Flooring is packed in bundles, bound by wires, labeled, and marked for grade. Every strip is branded "BRUCE-MEMPHIS-LITTLE ROCK".

"Ceda'line"—to Keep Moths Away

May readily be installed in closets of old or new homes. Makes a handsome compartment, with or without cedar shelving, and is a practical moth-deterrent lining. Made from aromatic Tennessee red cedar. A "Ceda'lined" closet allows ready accessibility to every garment, and affords convenient and space saving, all-year round fur and woolen storage. Strips are side and end matched, making a tight dust proof fit. The pleasing fragrance of cedar wood appeals to women. Send for sample, and literature.

BRUCE
CEDALINE

Registered U. S. Patent Office



Nailed to studding in new homes, and right over the plaster in old closets.

Literature

"Just Inside Your Threshold," an illustrated 24 page book, free on request, is a brief history of oak floors, and contains valuable information on: Why Wood Floors—Red or White, Plain or Quartered — Narrow or Wide — Square-edged—Design Patterns—Color Finishes—Appropriate Uses of Grades and Widths—⅜" for remodeling. Other literature with space for your imprint, to enclose with your regular mail will be sent on request.



Other Bruce Products

Oak, gum, beech, and Arkansas short-leaf pine (Rosemary Species) mouldings, finish, and boards; beech and gum flooring; Southern hardwoods, air or kiln dried.

Mixed Car Shipments

Freight costs less than L. C. L. Dealers' stocks are turned often with less capital investment. Order Bruce products in car-lots or mixed-car shipments. Write for delivered price book.

For further details and literature, write to: **E. L. BRUCE CO., Memphis, Tenn.** **Largest Makers of Oak Flooring in the World.**

CROMAR Ready Finished OAK FLOORING

Laid and Used the Same Day

Manufactured only by **The CROOKS-DITTMAR COMPANY, Williamsport, Pennsylvania**

Product

CROMAR, an oak flooring milled from the finest oak grown, completely scraped, sanded, filled, varnished and waxed at the CROMAR Plant, by patented machines.

Saves Time and Labor

Because CROMAR is completely finished at the factory, like furniture, all there is left to do is to nail it down. This results in great saving of time and labor, and enables the contractor and builder to handle the floor-laying job himself instead of subletting it. He can therefore bid lower, make a quicker sale or rental with quicker money return, and still give the home-owner the best oak flooring he can buy, and at no more than the price of a good rug.

Laid and Used the Same Day

CROMAR is also ideally suited for re-laying jobs. Because of the speed with which CROMAR can be laid right over the floors of an old home, contractors can handle a greater number of jobs with the same number of men. Such inside contracts turn a dull winter into a profitable one. And home-owners naturally appreciate the fact that two carpenters can lay CROMAR at the rate of a room a day —eliminating all the dreaded confusion and dirt of a week or two, involved in the use of unfinished flooring.



Colors

CROMAR is furnished in either light or dark finish. See illustration and description on the opposite page.

Distribution

CROMAR is sold through Retail Lumber Dealers. Write for free sample, full details, and the name of the CROMAR Dealer nearest to you who will show sample floors and quote prices.

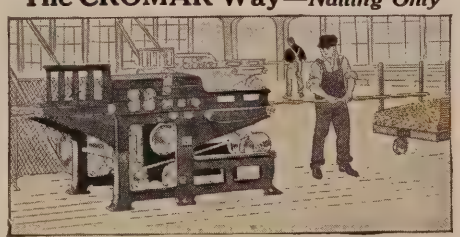
Finished at the Factory by Patented Machines

Finishing CROMAR completely at the factory (before shipping instead of after laying) means cutting the usual 7 operations down to only 1 operation:—

The Old Way

1.—Nailing
2.—Scraping
3.—Sanding
4.—Filling
5.—First Coat
6.—Fine Sanding
7.—Finishing Coat

The CROMAR Way—*Nailing Only*



All other operations are done by patented machines at the CROMAR Plant

CROMAR Machines Produce More Beautiful Lustre

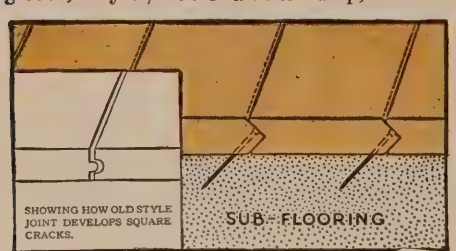
Machine finishing produces a more uniformly lustrous surface which is comparable only to that of fine furniture. There are no scraper marks or uneven brush strokes on a CROMAR Floor. Machines work more evenly than the best skilled hand.

CROMAR Will Stand the Hardest Wear

CROMAR'S matchless finish is *hard!* No handwork can duplicate the power of patented machines as they apply filler, varnish and wax at the CROMAR Plant. Not only is *every* pore of the wood filled, but the filler is driven deep into the oak. Thus the oil from the varnish is not absorbed. The varnish retains its elasticity and does not flake or scratch white. This is one of the ways in which CROMAR saves a contractor much trouble from causes beyond his control. Let your customers make the famous CROMAR Hammer Test—you can dent the wood of course, but you cannot flake off the varnish.

The Cleanable Groove Appeals to the Experienced Housekeeper

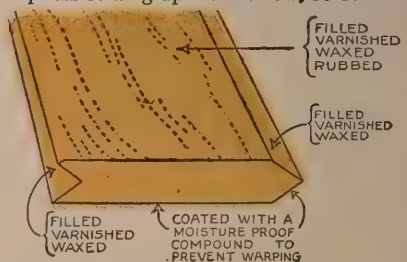
The shallow, rounded groove of CROMAR is so important a feature that it has been patented. It eliminates a fault very common to ordinary hardwood floors. Shrinkage of the boards or settling of the house opens up square cracks between the strips. Square cracks pack with dirt, making unsightly dark streaks that cannot be removed. Not so with CROMAR. There is the neatly rounded groove, only 1/40th of an inch deep, from which the dust is easily brushed with a cloth or dry mop. The contractor will find this sanitary feature, this convenience in cleaning, one of the strongest reasons why CROMAR appeals to the woman of the home.



Back and Edges are also Protected against Moisture

Often the most perfectly seasoned flooring will warp or shrink because the under-side of ordinary flooring has no protection from moisture. CROMAR is the only flooring we know of that is treated on all surfaces. In addition to all of its other patented advantages, CROMAR receives a supplementary treatment with a moisture-resisting compound that completely covers back and edges. CROMAR is thus protected from dampness coming up from below, so common on ground floors and throughout new buildings.

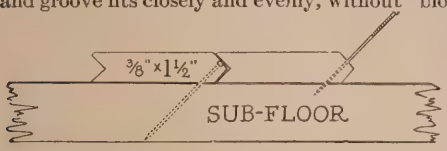
The contractor's customers will get continuous satisfaction from the CROMAR floors he lays. There is no surer way of building business than through the good will of satisfied customers.



For further details and literature, write to: **The CROOKS-DITTMAR COMPANY, Williamsport, Pa.**

Improved V-Joint Type of Tongue and Groove is Quicker and Cheaper to Lay

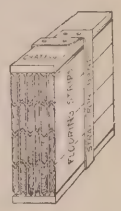
The laying of CROMAR Flooring is one of the simplest and easiest jobs in the construction of a building. It is no more difficult when re-laying in an old house. Each CROMAR strip is perfect. The improved V-joint type of CROMAR tongue and groove fits closely and evenly, without "blocking." Each nail hole is punched.



The flat, beveled edge of the tongue permits quick, accurate nailing without any necessity whatever of "setting" the heads. Specially trained, highly paid floor-layers are not needed.

Perfectly Packed; *Protected against Damage and Soiling*

The strips are packed face to face, 18 or 24 pieces to a bundle. Bundles are clamped in a press, edges protected with crating, and bound with strap iron to prevent rubbing. Fastened so tightly together, it is impossible for strips to work loose. Thus they are made light-proof, dirt- and dust-proof. Each bundle is stenciled with grade and quantity, so the material can be stored, without uncrating, until ready for use. Loss from broken tongues and grooves, split ends and damaged faces is completely eliminated.



CROMAR is Available in Two Beautiful Finishes

Light finished CROMAR shows the lustrous, brilliant color which has been identified with the finest hardwood flooring for so many, many years. Lately however, there has sprung up a demand for a Dark finished flooring. To meet this demand, CROMAR Weathered Oak Flooring was developed.

Its beauty is more restrained, and its more neutral tone harmonizes well with any decorative scheme. For these reasons, Weathered Oak CROMAR appeals to the artistic sense of many home-owners, and is often preferred by architects and interior decorators. The finish of Weathered Oak CROMAR consists of a deeply penetrating stain and two coats of a very hard-drying wax. This waxed finish is more easily kept up than a varnish or shellac finish, since worn spots can be quickly renewed by simply rubbing a little wax on the surface. And, though the dark finish will show dust a little more plainly, it does not show dirt and black marks which become so conspicuous on the light-finished floor.

Both finishes are beautiful, and the choice remains one of personal preference.



Light Finished CROMAR
(Standard Finish)



Dark Finished CROMAR
(Weathered Oak Finish)

Letters Expressing Satisfaction with the Beauty and Wear of CROMAR

—and the ease and speed with which CROMAR is laid—received from Contractors, Architects, Dealers and Home-Owners—are kept on file for reference by anyone interested. Here are a few merely to indicate the general tone of this gratifying correspondence from every section of the country:—

From a Contractor

"We are very enthusiastic about your product and we think it will take the place of all other hardwood floors, at least in this vicinity. We have at present orders for houses being built for better than 10,000 feet of CROMAR."

EDWARDS CONSTRUCTION CO., Edwardsville, Ill.

From an Architect

"The writer has in the past six months specified CROMAR Flooring in connection with the erection of a number of residences. I feel that if you would be good enough to send me the convincing sample of CROMAR, I could close with one or two more clients at this time."

F. McC. CROOKS, Pittsburgh, Pa.

(Needless to say, the samples were sent, as they will be sent to anyone interested.)

From a Dealer

"How soon could you duplicate our last carload order? We just landed a large order for an apartment house . . . and fully expect to sell two other apartment houses now under construction. We are very much pleased with your flooring and feel that it is far ahead of ordinary oak flooring due to its fine finish, better grades, the moisture-proofing, and the fact that it is inexpensive to lay."

SOMERS LUMBER CO., Atlantic City, N. J.

From a Home Owner

"About a year ago I installed your finished hardwood flooring in one room of my house to ascertain whether it would be suitable over an old floor in rather poor condition. This floor has proven so satisfactory that I have ordered enough from my lumber dealer to complete the remaining rooms. Kindly send me a can each of CROMAR Liquid Cleaner and CROMAR Body Wax."

W. L. DURAND, New York, N. Y.

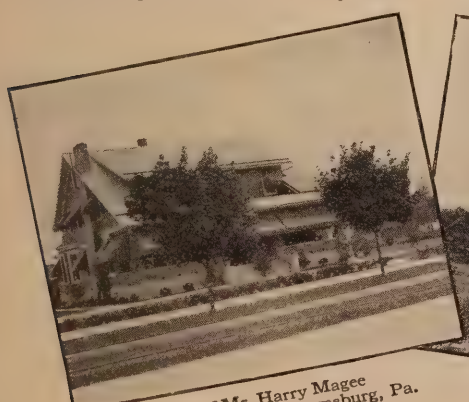
From a Builder

"It is little more than a year since I laid the first CROMAR floor in St. Petersburg. Today it is being specified for the finest new homes, not to speak of occupied dwellings. For example, the last lot I used went into a new residence costing $80,000."

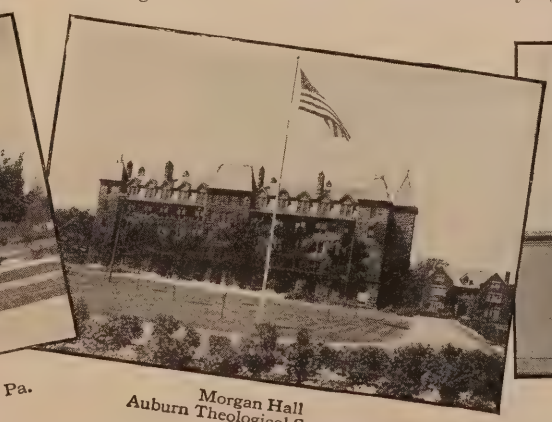
CHAS. M. KNAPP, St. Petersburg, Fla.

These Photographs Show Buildings with CROMAR Floors

—and are intended only to picture the fact that CROMAR is the ideal hardwood flooring for every type of building. CROMAR is beautiful enough for the most pretentious residence yet economical enough for the most modest. And it is the only logical oak flooring for the re-laying of old floors.



Residence of Mr. Harry Magee
Carpet Manufacturer, Bloomsburg, Pa.



Morgan Hall
Auburn Theological Seminary



Gary Trust and Savings Bank
Gary, Ind.

For further details and literature, write to: **The CROOKS-DITTMAR COMPANY, Williamsport, Pa.**

RITTER APPALACHIAN OAK FLOORING

Manufactured By

W. M. RITTER LUMBER COMPANY

America's Largest Producer of Hardwood Lumber

General Offices: 115 E. Rich Street, Columbus, Ohio

Be careful in the selection of the flooring for your new home if you would avoid disappointment after its completion. The sharp differences in the character of the grain, texture and color of the various brands of flooring make discrimination imperative—for the floors of the home can add to or detract from the harmony of the entire interior decorative scheme.

Quality

The fewer the number of species of oak involved, the better the kiln drying and the greater the uniformity of color obtained. RITTER Appalachian White Oak is produced from but two species. RITTER Appalachian Red Oak is produced from but three species.

Oak flooring, if it is to give the maximum of beauty and satisfaction, must be made from Oak of fine grain, even texture and more uniform color, enabling the workmen to lay and scrape with ease and economy in such a way as to give, when finished, a smooth, uniform appearance, free from irregularities, and pleasing to the eye.

All RITTER Appalachian Oak Flooring is made of oak grown in the Appalachian mountains which embodies these essential qualities. For these reasons, floors laid with RITTER Flooring are unusually beautiful, fine in grain, even in texture, uniform in color and economical to lay and finish.

RITTER APPALACHIAN OAK FLOORING

Reasons for the Greater Beauty of Ritter Flooring

Floor beauty is largely a matter of timber growth. Granted that the flooring is well manufactured, properly handled, and well laid, the charm of the completed floor goes back to the forests in which the timber originates.

How appropriate the timber is depends principally on where it was grown. Oak grown in low, swampy areas, although suitable for many purposes, is usually of coarse, flashy grain and uneven texture, due to fast growth and the resultant wide growth rings. Such oak is not adapted to the production of flooring of the same character of beauty as highland oak of fine, subdued grain and uniform texture.

Highland oak, particularly that from the Appalachian Region, on the other hand, possesses fine grain, close, even texture and more uniform color—qualities so essential to the truly beautiful floor. These characteristics are due to slow growth in the elevated and well drained areas of the Appalachian mountains, where there is an abundance of oxygen and nitrogen, where the tree roots are well aerated, all resulting in the comparatively thin cell wall found in oak of desirable texture.

Beauty

RITTER Appalachian Oak Flooring, embodying all the qualities desired in Oak flooring, gives charm and elegance to the home. Many architects and builders have discovered the fact that the results desired in treatment, finish and resultant beauty in final appearance, can be more successfully obtained by using RITTER Appalachian Oak than in any other way. RITTER Appalachian Oak flooring is not only made from the finest of timber, properly seasoned and manufactured, but in addition it is stored in warm rooms from the time it is manufactured until it is shipped to its final destination, thus assuring to its users, the maximum of satisfaction.

Cost

The slight additional cost for this material is far more than made up through the economy in laying, scraping and finishing, and in the satisfaction of having the dignity, tone and beauty characteristic of floors made of RITTER Appalachian Oak, and in increased resale value.

For Every Requirement

RITTER Flooring is made in standard grades and sizes. No matter what the requirement, there is a grade of RITTER Flooring to care for it. Each possesses the same fundamental qualities that have made "Ritter Brand" the acknowledged superior in the oak flooring field.



Remember

The standard rules for grading Oak Flooring give consideration to such imperfections as knots, worm holes, sap, splits, and similar defects, but they do not give consideration to grain, texture or color; therefore, to be assured of beautiful Oak floors, it is necessary, in addition to specifying the grade desired, to specify also that the flooring ordered must be manufactured from Appalachian Oak. The easiest and surest way of securing a satisfactorily finished floor is to insist on RITTER Appalachian Oak Flooring.

In order to enable the purchaser to know he is getting Ritter Flooring, every piece is branded on the back: "W. M. Ritter Lbr. Co."



For further details and literature, write to: **W. M. RITTER LUMBER COMPANY** 115 E. Rich Street Columbus, Ohio

"IMPROVED" O. G. FIR GUTTERS

A PRODUCT OF

E. M. LONG & SONS

CADIZ, OHIO

Purpose:

This company markets "Improved" O. G. Fir Gutters for use on all types of buildings where exposed or hanging gutters are contemplated.

TRADE E.M.LONG & SONS CADIZ · OHIO IMPROVED O.G.FIR GUTTERS MARK

REG. U.S. PAT. OFFICE

They add to the attractiveness of a house and have architectural merit on account of their form and design. "Improved" O. G. Fir Gutters can be included as a part of the cornice profile — eliminating the unsightly appearance of the ordinary hanging metal gutter.

Material:

Improved O. G. Fir Gutters are manufactured from No. 2 Clear and better soft old growth yellow fir and are very strong and durable.

The ultimate cost is less than gutters of copper, galvanized iron, or best tin, and they are adapted for both new construction and replacement work.

Stock Sizes and Weights:

They can be furnished in the following stock sizes: 3 x 5 inches, 4 x 6 inches and 5 x 7 inches, and in lengths from 10 to 40 feet. The 3 x 5 inches weighs 1½ pounds, the 4 x 6 inches, two pounds, and the 5 x 7 inches, three pounds, per lineal foot.

NOTE: Lengths 22 ft. and under can be shipped locally in any quantity; for lengths longer than 22 ft. order should call for not less than 1,500 pounds.



Note the Neat Appearance and Alignment of Improved O. G. Fir Gutters on This Residence

Primed or Untreated:

Gutters can be furnished either unprimed or treated with a creosote wood preservative.

How to Install:

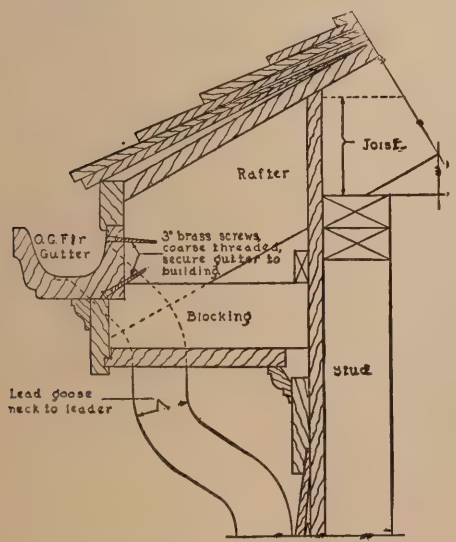
It is recommended setting all gutters level for architectural and practical reasons. Architecturally — so that straight, horizontal lines will be retained. Practically—because water, always seeking its own level will find its outlet at the leader spouts. One leader is sufficient for short gutters, but long lengths require two or more depending upon roof area to be drained.

Gutters can be set with a slight pitch towards the leader end, or in long lengths, each end near a leader can be sprung downwards slightly and fastened in that position. In joining two lengths, the ends should be cut bevel to fit closely, the joint white-leaded and fastened securely with two 3-inch brass screws through the bottom and two ¾-inch brass screws at the top. Screw heads should be countersunk and puttied. The ends of gutters may be rebated for a distance of 1½ inches on each side of the joint deep enough to hold sheet-lead flashing which should be embedded in the rebate with elastic cement and tacked around the edges with ¾-inch copper tacks. Ask for booklet showing photographs, details, drawings for downspout connections, etc.

Advantages:

"Improved" O. G. Fir Gutters are rapidly replacing metallic gutters on all types of buildings, because they look better, last longer and are less expensive; they do not corrode or disintegrate when exposed to the elements, smoke, or acid fumes. There is no expansion or contraction.

In New England, wooden gutters have been and are in general use, and have proved very satisfactory and durable. There are numerous instances where Old Growth Fir Gutters have lasted 25 years and more without any attention or repairs.



Detail of "Improved" O. G. Fir Gutter with Boxed Corice

Large Stock Always Available:

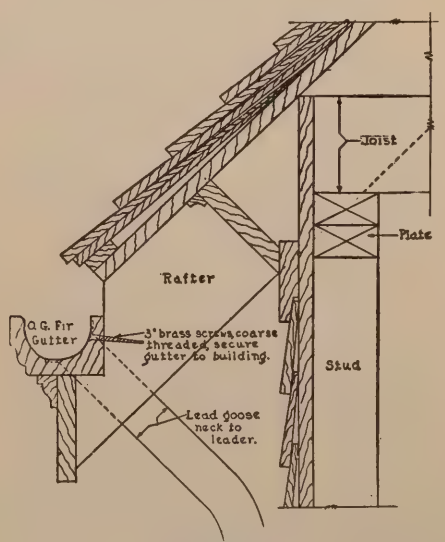
A large stock of "Improved" O. G. Fir Gutters is always available for quick shipments—half a million feet is carried in stock.

Sold Through Retail Lumber Dealers:

"Improved" O. G. Fir Gutters are sold through retail lumber dealers. We will gladly give you the name and address of dealer nearest to you.

NOTE—For your protection every piece is Trade-Marked.

Ask for Literature



Detail of "Improved" O. G. Fir Gutter with Open Rafters

For further details and literature, write to: **E. M. LONG & SONS, CADIZ, OHIO** *(The Pioneers of Improved O. G. Fir Gutters)*

Andersen Standard White Pine Window Frames

Manufactured by

ANDERSEN LUMBER COMPANY

Bayport, Minnesota

Products:

Andersen Standard White Pine Window Frames, White Pine Door Frames, Cellar Sash Frames and Barn Sash Frames.

Over Twenty Years' Experience:

Since 1904 this company has specialized in the manufacture of standard window frames and in that time over 5,000,000 Andersen Frames have been installed in homes throughout the nation.

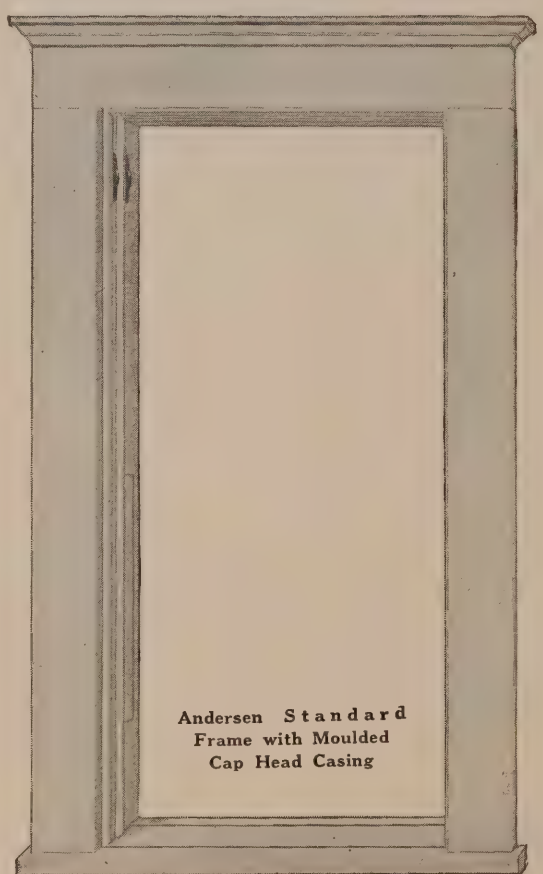
Trade Mark Registered U. S. Pat. Off.

Genuine White Pine for All Exposed Parts:

All exposed parts of Andersen Frames—the outside casing, drip cap, mouldings and sills—are made of Genuine White Pine. This wood is recognized as the best wood for out-of-door use because it withstands the effects of the elements without shrinking, warping, rotting, swelling or creeping. It requires less paint and holds it longer than other woods and the texture is such that good machine work gives perfect results. This is the same wood as was used in the nation's oldest standing homes—not Western, Oregon or California white pine, but the *genuine old-fashioned white pine* and it gives long life and permanent accuracy to Andersen Frames.

Adaptable for Any Type of House:

In construction and in beauty of design Andersen Frames blend into almost any architectural style that the builder desires. Whether the structure is of frame, brick or stucco there is a style of Andersen Frame to meet the need. They offer the builder unlimited opportunity for putting his individuality and personality into the building. From the millionaire's mansion to the small bungalow they carry out the appearance desired. Even in period houses or in old colonial dwellings they impart a pleasing and artistic effect. In Andersen Frames appearance has been combined with superior quality, ingenious construction and adaptability to a variety of building purposes.



Andersen Standard Frame with Moulded Cap Head Casing

Only Seven Units that Come in Two Compact Bundles:

The average window frame is made up of 57 different parts, the ordinary knock-down frame has 18 parts, but the Andersen Frame comes complete in only seven units. Complete plain cap head casings or moulded cap head casings with drip cap and moulding nailed in place are furnished as one member. A mitred piece of moulding for making the returns is fastened where it will remain until the building is sided. The sills are horned and cut exact. The side jambs are dadoed to fit the sill and have the pulleys screwed in place; the pockets cut, broken out and refastened with screws; and the blind and parting stops nailed accurately in place.

Side casings are beveled to fit the sill and cut square on the upper end to the exact length. Blind and parting stops are cut exact, fitted for the sill and fastened in place. The head jamb comes complete with blind and parting stops cut exact and nailed in place.

These seven units come packed in two compact bundles. The sill, head casing and head jamb complete are in the "Head and Sill Bundle." The side casings, and side jambs complete come in the "Side Bundle." Each bundle weighs less than twenty pounds, is plainly marked for size and bound with strip iron.

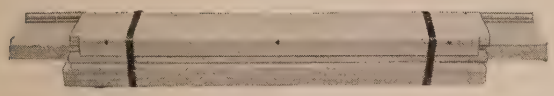
There are no loose or frail parts to become lost or broken in transit or on the job.

121 Different Sizes from 11 Standard Sizes:

Out of a stock of 11 sizes of standard frames your Andersen dealer can supply you with 121 sizes of two light window frames. That is possible because the heights and widths are interchangeable. Because of this feature you can get immediate delivery of the size frame you wish. The dealer can load your order while you wait and the frames will be on the job when you want them, thus eliminating expensive delays.

For further details and literature, write to: **ANDERSEN LUMBER COMPANY, Bayport, Minn.**

Andersen Standard White Pine Window Frames (Continued)



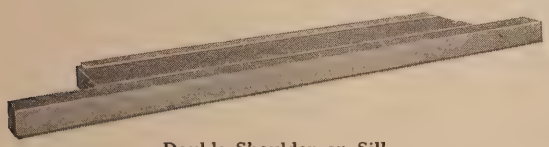
Head and Sill Bundle

Andersen Frames Can be Put Up in Ten Minutes:

So accurately are Andersen Frames constructed that no trimming or fitting is required on the job. Any carpenter with a hammer and nineteen nails can put up an Andersen Frame in ten minutes. Compare the labor cost on the Andersen with the cost of assembling the eighteen parts of the ordinary knock-down frame or the 57 parts of the average window frame.

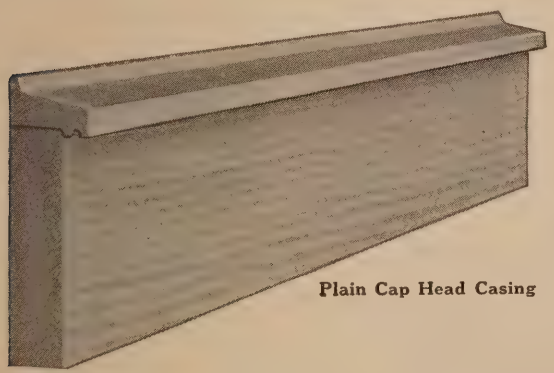
Keeps Out Wind and Water:

Andersen Frames are built to give comfort and service and embody features that keep out wind



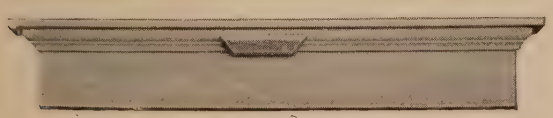
Double Shoulder on Sill

and water. The sills have double shoulders, the bottom sash rests against one and the storm sash or screen against the other, making it impossible for wind or water to enter. The groove under the front edge of the water drip prevents water from running back. On plain cap head casings, the water drip is rabbetted where it fits onto the casing insuring



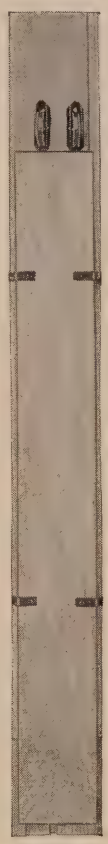
Plain Cap Head Casing

tight fit and keeping water from running back. The parting stop groove is made shallower than the sill dado

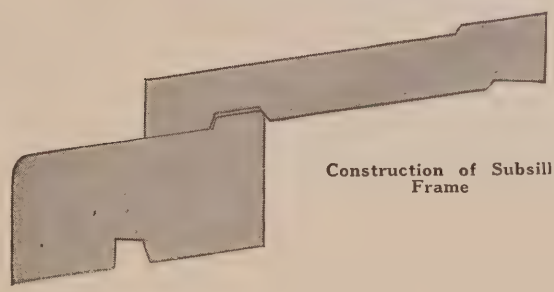


Moulded Cap Head Casing

so that the water hitting the parting stop groove drops onto the sill and follows the slope out of the building.



Side Bundle

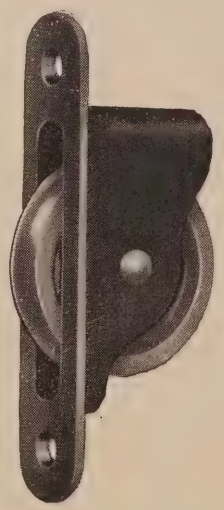


Construction of Subsill Frame

Subsill frames can also be furnished. On these a shoulder on the sill fits into a subsill groove—another waterproof feature.

High Grade Pulleys:

The cast iron pulleys have polished and lacquered faces and wheels. The face is 1x4½ inches; the wheel is 2 inches in diameter with a ¼ inch steel axle. They are heavier and of better quality than most stock frame pulleys. In a recent test with a ball bearing pulley the ball bearing pulley was off its bearings after ten years use but the Andersen pulley was still running strong and true, ready for many more years. The pulleys are screwed in place and fit the mortise perfectly. The bundling method prevents breakage in transit.



Saves Time on the Job:

Everything possible is done at the factory to save time on the job. Every part that can be, is nailed in place and by combining the many parts saves the carpenter work. The pockets can be opened before or after casing up the window without injuring the pulley stile face. The blind stops are marked to show where the casing should be set.

Specialization, modern factory methods and automatic machinery makes it possible to manufacture and assemble the many parts at less expense than the builder can: Frames made on the job can't compete with machinery made frames either in accuracy or price. Special built frames can't compete with the product of the large factory.

When you consider that an Andersen Frame can be put up complete in ten minutes you can see their economy. The Genuine White Pine maintains the accurate construction as long as the house lasts.

Box Window Frames for Solid Walls:

Andersen Box Window Frames for brick, tile, concrete and other solid walled buildings, embody the same high quality, accurate construction and Genuine White Pine as the standard window frames. Where possible they have the same time saving features and also special features that make them invaluable for their purpose.

Have Your Dealer Show You:

For further information about these frames see your Andersen dealer. If you don't know his name write direct to the Andersen Lumber Company.

CURTIS WOODWORK

THE CURTIS COMPANIES SERVICE BUREAU

395 Curtis Building, Clinton, Iowa

Curtis Sash & Door Co.....Sioux City, Iowa
Curtis & Yale Co.....Wausau, Wisconsin
Curtis, Towle & Paine Co.....Lincoln, Nebraska
Curtis Bros. & Co.....Clinton, Iowa

Curtis-Yale-Holland Co.....Minneapolis, Minn.
Curtis Door & Sash Co.....Chicago, Illinois
Curtis, Towle & Paine Co.....Topeka, Kansas
Curtis Detroit Co.....Detroit, Michigan

Curtis Companies Incorporated. Sales Offices: Pittsburgh, New York, Baltimore

Manufacturers of Trademarked Architectural Interior and Exterior Woodwork, Standardized

Products

Standardized Architectural Woodwork:

Complete Entrances
Exterior Doors
Interior Doors
Frames
Mantels
Panel Work
Dining Alcoves
Stairways
Stair Material
Windows and Sash
Louvres
Blinds
Porch Work

1866 CURTIS

This trademark appears only on Curtis Woodwork. It guarantees the choicest woods, high standards of workmanship and authentic designs.

Built-in Woodwork:
Bookcases
Corner Cases
China Closets
Sideboards
Buffets
Kitchen Dressers
Ironing Boards
Dressing Tables and Cases
Medicine Cabinets
Exterior Moldings
Interior Trim

Design

Woodwork has two-fold importance in the home beautiful. It is architecturally and structurally a part of the house itself. At the same time it strikes the keynote of the interior decorative scheme. Beauty in the home must begin with the woodwork.

Realizing this two-fold importance, the makers of Curtis Woodwork have made available to contractors and home builders everywhere east of the Rockies, woodwork designs that conform to the most rigid requirements of the architect and interior decorator. Curtis designs were created especially for the Curtis Companies by Trowbridge & Ackerman, of New York City, architects who have designed some of the most expensive houses in America and done work that authorities say is "worthy to stand with the best work of all time." The best houses in America and England have served as prototypes for Curtis designs; and the result is woodwork beautiful enough for the mansion but within the buying power of the builder of the most modest cottage.

Construction

These authentic designs are produced by Curtis according to very rigid specifications as regards materials, methods and workmanship. It is impossible to describe here all Curtis construction details in full. The examples of the rabbeted check rail used in Curtis double-hung windows; the panel thicknesses in Curtis softwood doors; and the lock-mitre joint in Curtis cabinetwork, must suffice. Study these carefully, for they are typical of the through-and-through goodness that only the Curtis trade-mark stands for.

Price

In spite of authentic design and superior materials and construction, Curtis Woodwork costs little or no more than ordinary millwork. When such expense items as cutting and fitting and sanding on the job are taken into account, Curtis Woodwork often costs less. Low cost has been made possible by large scale production and wide distribution.

Deliveries

Curtis Woodwork is instantly available, either from the Curtis Dealer, who usually stocks a large line, or through him from the nearest Curtis plant. There are no chances for delays, mistakes or expense, as with made-to-order millwork. Your house is not held up waiting for the frames, trim, stairwork or cabinetwork, when you use Curtis Woodwork.

Curtis Woodwork is sold everywhere east of the Rockies through lumber dealers who handle the line. The Curtis dealer nearest you will be glad to give you full information about the items he carries in stock and to show you his Curtis Catalog, which offers you a complete selection of Curtis designs, of which those shown here are merely examples.

Or a letter to the Curtis Companies Service Bureau, 395 Curtis Building, Clinton, Iowa, describing your requirements, will bring complete information and recommendations.



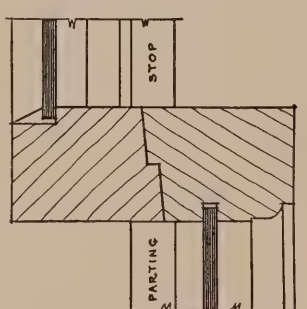
Ovolo Molding



Flush Molding

Curtis Door Moldings—The cross-sections on the left show the two types of moldings—ovolo and flush—used on all Curtis doors, and the construction of solid "raised" panels in softwood doors. In doors 1¾-inch thick these panels are 1 1/16-inch thick; in 1⅜-inch doors, they are ⅞-inch thick. Thus they have greater strength and a heavier "raise" that gives the door beauty and interest not found in flatter panels. Note that the ovolo molding is one with the stile or rail, while the flush molding is "applied" to a spline set in a groove in the stile or rail so that as the panel expands and contracts the molding will not pull away from the frame of the door.

Curtis Rabbeted Check-Rail—The drawing at the right shows a section through the check-rails on a Curtis double-hung window. Note the offset or "rabbet" in the beveled joint between these rails. Seven times as much wind pressure is required to get through this kind of a joint as an ordinary beveled check-rail.



Curtis Rabbeted Check-Rail

Curtis Lock-Mitre Joint and Ordinary Nailed Butt Joint—In Curtis cabinetwork corners are made by the Curtis lock-mitre or tongue-and-groove joint. The pieces are glued, not nailed together. Result: No edge grain wood at the corner to mar the finished surface; no nail head holes; no open cracks; and a stronger joint. This same construction is used in making square newels.



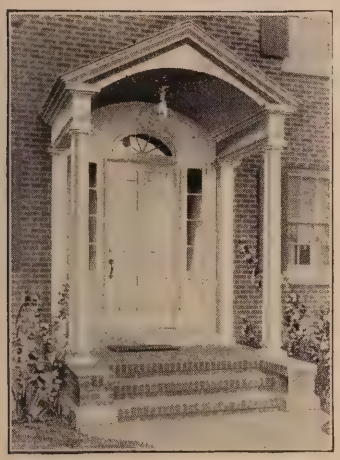
Curtis Lock-Mitre Joint



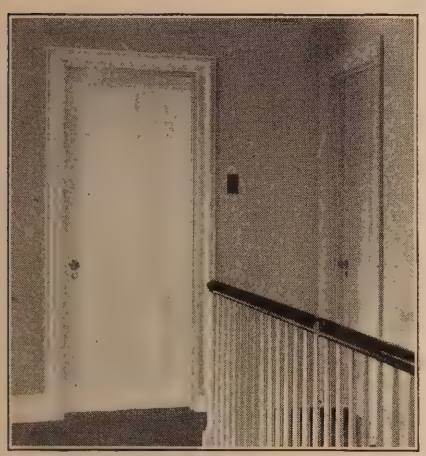
Ordinary Nailed Butt Joint

In Curtis cabinets with drawers, the drawer sides and ends are put together with dove-tailed corners; they cannot pull apart. The drawers are slightly narrower in the back than in the front and they operate on center guides. These details prevent binding and jamming. The drawer bottoms are three-ply boards set in grooves in the sides and ends all around; they cannot come loose and slip out at any point. Face stock in Curtis cabinets is 1⅛-inch thick; the wood is all carefully matched in both color and grain; and Curtis construction is better than that found in much of the fine furniture on the market.

For further details and literature, write to: THE CURTIS COMPANIES SERVICE BUREAU 395 Curtis Bldg. Clinton, Iowa



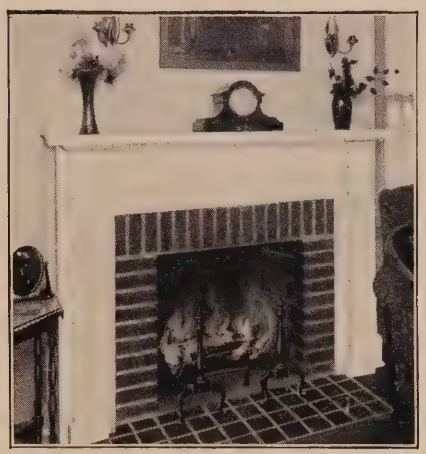
Entrance C-100—True to every tradition of the Colonial style. The relations between the columns, entablature, cornice and pediment show how this type of entrance ought to be designed. Curtis makes this entrance complete, including the door, frame, sidelight sash, transom sash, columns, moldings for cornice, plate boxes and hood, half-circle facia, half-circle spandrel and sidelight panels. Door varies from 2'8"x6'8" to 3'0"x7'0" and rough opening from 4'11⅝"x8'5" to 6'4"x9'0", according to construction of the wall. Height from porch floor to top of pediment, 10'5¾"; distance between columns from center to center for 2'8" door, 5'3¼"; for 3'0" door, 5'7¼"; Porch floor for 2'8" door is 6'2½"x4'9"; for 3'0" door, 6'6½"x4'9". Door furnished in white pine; frame in white pine with oak sill. Doors of other designs can be used if desired.



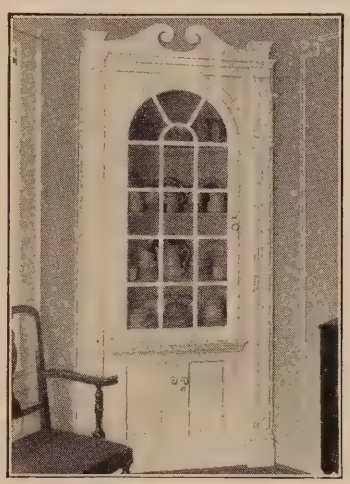
Interior Door C-302—A true-to-type Colonial door, with proper proportions between parts. Made in white pine in all necessary sizes between 2'0"x6'0" and 3'0"x7'0" in 1⅜" thickness, and between 2'6"x 6'6" and 3'0"x7'0" in 1¾" thickness. The panels are solid white pine, with heavy raise (see detail on preceding page). This door is also available under Design C-303 in white pine and unselected birch with flat hardwood panels.



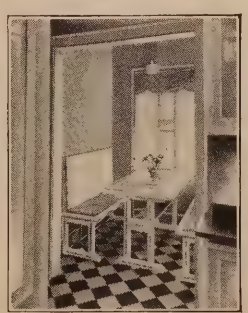
Windows — Double-Hung and Casement.—Curtis makes windows of all types in all necessary sizes. See detail on preceding page for construction of Curtis rabbeted check-rail.



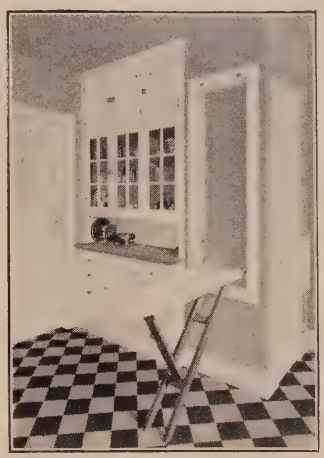
Mantel C-617—The splendid proportions of this mantel and the beautifully fluted pilasters make it worthy of the finest Colonial house. It is furnished in unselected birch. Height to top of shelf, 4'4⅝"; width overall of shelf, 5'9¾"; width of shelf, 6⅝"; height of brick opening, 3'3½"; width of brick opening, 3'11".



China Closet C-700—Use two of these in your dining room, in the corners of one end or side of the room. They are permanent furniture of unusual beauty, and because of their size are important in mass and color in your decorative scheme. Made in unselected birch with triangular back. Overall size of case, 8'1" high, 3'8½" wide; counter line 2'4" high. Rough opening, 7'6" high; to be set in a corner measuring not less than 2'8" each way along the wall. The case can be made with a square back to set in a recess.

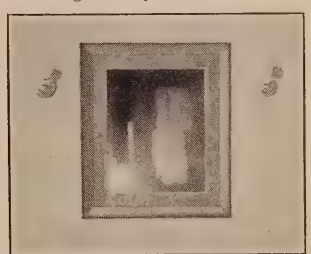


Dining Alcove C-742—Just the thing for hurry-up meals in the large home, or to replace the dining room in the small house. The set consists of a table whose top is 2'6"x4'6" and is 2'6" high, and two movable benches with wainscote-high backs, and 1'6" wide, 4'6" long and 3'6" high overall. Space required, about 5'6" wide. Made in both white and yellow pine.



Kitchen Dresser C-750 and Ironing Board C-770—Curtis kitchen dressers are built with interchangeable parts so as to allow any combination of drawers, cabinets and bins desired, and in two sizes. The illustration shows a complete dresser 4'6" wide, with top section, which brings the overall height to 8'4¼". The top section can be omitted if desired. Other dressers 2'11½" wide are also made. You can have either glazed or panel doors. All dressers made in yellow pine.

Have your ironing board fixed to a built-in case. This case can be built-in between studs in a frame wall. Overall size, including trim, 1'11¾"x5'7"x4¾". Rough opening required, 1'7¼"x5'2½"x4½", cut 2'4" from the floor. The board itself is 14¾" wide, 4'6" long and 1⅛" thick. At the lower adjustment it is 2'9" from floor and at the higher adjustment 3'2".



Medicine Cabinet C-817—A neat design for the well appointed bathroom. Furnished in white pine, for rough opening 1'9½"x2'1½"x4½". Three adjustable shelves inside; plate glass door of highest quality; mirror 16"x24".



French Doors C-321—To shut off noise and drafts and odors of one room from another and still allow light to pass between the rooms, use French Doors. They are the windows of the interior and when well proportioned and tastefully divided into small panes, as in this design, they have great decorative value. These doors are furnished in white pine, plain oak and unselected birch for both 4'0" and 5'0" openings of either 6'8" or 7'0" heights. Both 1⅜-inch and 1¾-inch thick doors are available.

QUALITYBILT WOODWORK

Manufactured By

FARLEY & LOETSCHER MFG. CO.

DUBUQUE, IOWA

☞See page 215 for Presto Disappearing Stairs.



Inador Closed



Quickly Accessible



Easily Operated



A Rigid Ironing Board



Neat Back No Projections

"INADOR" IRONING BOARD (Pat. Applied For)

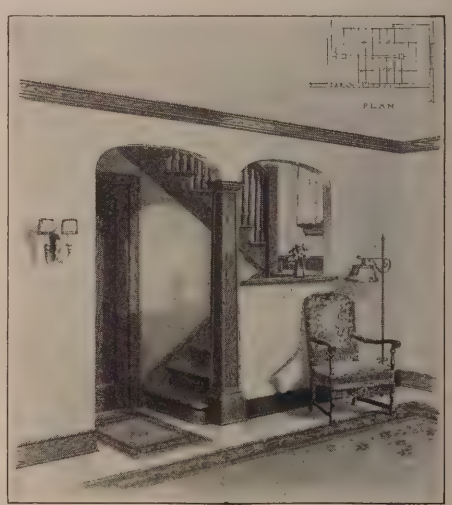
An ironing board in a 1¾ inch door and no unsightly cabinet on back! Quickly installed as it takes the place of a standard door. Ideal for apartments and small homes where compactness is desired. Ironing board can be used in more than a dozen positions by simply swinging the door and locking it rigidly in place with a simple device. Simple in operation, cannot get out of order. Costs very little more than an ordinary door. Made in different woods, either solid or veneered. The most simple and compact ironing board made which is always ready to use, yet never in the way. Write for prices and circular describing its many advantages.



U1734

STAIRWAYS

One of the most intricate parts of a building is the stairway. We have developed our stair dept. to the best in the country. Our system of measurement sheets and the accurate work of our skilled stair builders results in a stairway that fits perfectly without extra work by the carpenters on the job. Have your stairs "Qualitybilt" and be assured of lasting satisfaction. These two designs are typical of the many stairs we manufacture.



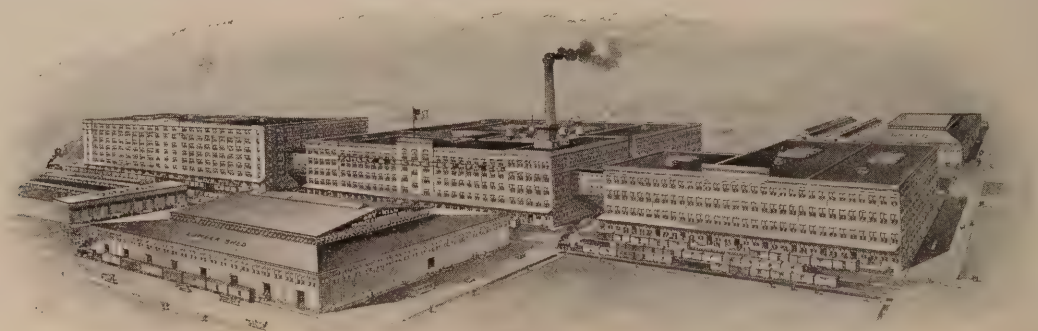
U1746

SPECIAL INTERIOR WOODWORK

To achieve distinctiveness and character in the Home is the desire of every builder. To this end the best talent of architects and designers is employed, and the creations are as many and varied as there are builders.

To help reduce costs, we always advocate the use of our standardized woodwork, wherever possible, as these standard or stock designs are produced in quantities which materially lower the price without impairing the quality.

For better homes, however, the standard designs do not always suffice and we are called upon to manufacture many special detailed designs to meet the individual demands of the builders. And in this we excel—Distinctive woodwork of this character is our specialty.

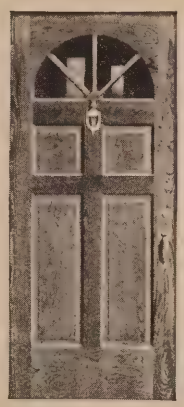


OUR MAIN PLANT AT DUBUQUE, IOWA. OVER 16 ACRES OF FLOOR SPACE

For further details and literature, write to: **FARLEY & LOETSCHER MFG. CO., Dubuque. Iowa.**



U106



U130

A Few Popular Designs of Exterior and Interior Qualitybilt Doors



Entrance U45

One of our many attractive entrances. Many other designs equally attractive can be arranged from our wide variety of Qualitybilt Entrance Doors.

Qualitybilt WOODWORK

Is Our Exclusive Product



U148



U242



U408



U431



U432



U453

Equipment

Our equipment is complete and up-to-date, our workmen are skilled artisans, and the materials are the best obtainable. The machinery throughout is the very finest that can be had and every modern invention designed to reduce manufacturing costs has been installed.

Development

This business was established in 1876 and the constantly increasing demand for our products has compelled many large additions to our plant, until today we have a total floorspace of over 16 acres under roof, with a total frontage along railroad tracks of 896 feet.

The Warehouse

We have a huge warehouse filled with tremendous stocks of Sash, Doors, Mouldings, Screens, Cabinet Work, etc., all crated ready for shipment insuring you the very best of service.

Repeat Orders

Repeat order after repeat order is proof that our customers are well satisfied—that they appreciate Qualitybilt Woodwork and prompt service. What we have done for them we can do for you.

Delays from Fire

Delays from fire are reduced to a minimum. Our main factory building and eight-story warehouse are of reinforced concrete fireproof construction and all buildings are equipped throughout with sprinklers. Every precaution possible has been taken to avoid fire.

Quick Deliveries

We make quick deliveries—Stock items can be shipped the same day the order is received. Due to our exceptional facilities we can give very prompt service on special detail work, according to architect's plans and details.

OUR PRODUCTS

- Blinds
- Blocks
- Breakfast Nooks
- Buffets
- Cedar Chests
- Closets
- Coal Chutes
- Colonnades
- Columns
- Combination Doors
- Doors (All Kinds—Veneered and White Pine)
- Dumb Waiters
- Fireplaces
- Frames
- Garage Doors
- Glass
- Interior Columns
- Interior Trim
- Ironing Board Closets
- Kitchen Cupboards
- Linen Closets
- Mantels
- Medicine Cabinets
- Mouldings
- Pergolas
- Porch Work
- Sash
- Screens
- Sliding Stairs (Presto)
- Stairwork
- Storm Sash & Doors
- Telephone Niches
- Wainscoting
- Window Seats
- Windows & Sash

For further details and literature, write to: **FARLEY & LOETSCHER MFG. CO., DUBUQUE, IOWA.**

Hurd Woodwork

Manufactured by

THE HURD LUMBER & WOODWORK CO.

171 S. Campbell Ave.

Detroit, Mich.



Products

Special and standard woodwork. Entrances, stairways and mantel work: bent window frames and sash, soft and hardwood doors, storm sash and doors, wood cornice and mouldings, hardwood and pine flooring, porch enclosures, store and bank fixtures, church windows and pews, interior panel and cabinet work. Also stock a comprehensive line of well known building specialties such as: Ritter Oak Flooring, Miracle Doors, Celotex and Tennessee Aromatic Red Cedar lumber, flooring and ceiling.

HURD WOOD WORK

Woodwork for Every Type of Building

Following a natural demand for better building materials, the Hurd Lumber and Woodwork Co. offers home builders a service which is remarked for its uniform dependability. Produced by a skilled organization, in an up-to-date plant where the most modern methods of manufacture are employed, Hurd Woodwork will be found to meet the most exacting requirements for the modest cottage or the more pretentious home. Their years of experience in the production of fine woodwork for homes, churches and public buildings is especially valuable to the builder whose requirements are for woodwork of a special nature because of their ability to interpret plans and detail and to create woodwork adapted to the individual need.

Permanence, Economy, Beauty

The use of Hurd Woodwork throughout the building will add much to its comfort, durability and low upkeep—for, regardless of careful design and proper construction, a house can be no better than the material which goes into it. Hurd Woodwork is manufactured from only first quality lumber, properly seasoned and worked up under ideal conditions. Its use prevents sagging doors, jammed windows, warped panels, twisted mouldings and open cracks in interior woodwork. Because it is so well finished at the factory there is little or no additional work for the carpenter to do. Hurd Woodwork comes to the job full length, uniform in width and thickness and surfaced on all four sides. It is as nearly straight and true as good milling can make it and tongue and groove stock fit perfectly.

For further details and literature, write to: **THE HURD LUMBER & WOODWORK CO.** 171 S. Campbell Ave. Detroit, Mich.

Ritter Oak Flooring

Elegance and dignity always make a strong appeal to those of discriminating judgment, particularly when these elements may be combined with utility.

The use of hardwood flooring presents a striking example of such a combination.

An oak floor, even in a modest home, adds so much to its attractiveness and value that, from a monetary standpoint alone, it is a mistake to use any other kind of flooring. Oak floors are practically indestructible and under ordinary conditions will last a life time.



A unique and pleasing effect is obtained with parquetry flooring laid in herringbone style.

Each species of oak possesses its individual color and texture, the lowland oak being much coarser than oak grown in the Appalachian area where are found the finest hardwood trees in the world.

Chief among the factors contributing to the superiority of Ritter Appalachian Oak Flooring is the remarkable quality of timber from which these woods are cut. Mild texture, uniformly fine, subdued grain and excellent color are characteristics of this flooring. Such qualities assure economy in working and finishing and afford unusual beauty in the finished product. Because of the extreme care used in the manufacturing, storing and shipping Ritter Oak Flooring will be found to lay easily and evenly with a minimum of effort and cost.

Oak flooring is shipped from the nearest storage point. Write for prices and literature describing the uses for which various grades of oak flooring are adapted and methods of laying, scraping and finishing.

Aromatic Tennessee Red Cedar

Red cedar lined closets offer practical and convenient year round storage for furs and woolens.

The aromatic fragrance of Tennessee Red Cedar is very pleasant and acts as an efficient moth deterrent.

Miracle Doors

The Miracle Door has been endorsed by architects and received enthusiastically by the entire building industry.

The Miracle Door combines the simplicity of the one panel door with the richness of a moulded design. Because of its appearance of weight the 1⅜" thickness fills requirements which ordinarily demand an inch and three-quarters door. The smooth, sanitary surface adapts it for use in place of a flush door at a great saving in cost.

Made in a variety of both hard and soft woods, the possibilities of staining Miracle Doors and using them in connection with varied wall treatments is unlimited. They adapt themselves to the many styles of architecture and are suitable for buildings of practically every type.

A complete assortment of Miracle Doors are carried in stock and prompt delivery may be had on standard dimensions. Other sizes made to order. Panel doors can be readily changed to mirror doors by applying the mirror mould.

The Handy Ironing Board Cabinet



A cabinet designed for convenience and utility at a very moderate price. Manufactured from clear white pine with braces and all wearing parts of hardwood, it will not shift or wobble, rigidity being secured by using a laminated hardwood panel in the back.

Both boards are shaped so that pad or clothes may be worked without difficulty. The door is in two sections, the lower section serving as a support for the board, and being so arranged that skirts and dresses can be ironed full length. Sockets may be wired at side or bottom.

The cabinet is made to line up with 6-8 doors; has outside measurements 14" x 66¼" x4⅛". Comes to you in an individual crate with casings and all hardware attached ready to install.





Breakfast Nooks

Breakfast nooks are great work, space and time savers. Here is a breakfast nook of attractive design which sells for a very moderate price.

The table is made from selected pine measuring 26x48 inches across top. Seats are unusually comfortable and the round corners on both table and seats permit easy access.

This is a combination which will do much to lighten the duties of housekeeping.

Shipped knock-down and crated from Detroit.

Bertelsen Built-In Furniture and Grille Work

Made By

BERTELSEN ADJUSTABLE GRILLE CO.

2117-27 South Troy St., Chicago

Products

This company manufactures Built-In Colonnades, Sideboards, Buffets, China Closets, Kitchen Cabinets, Pantry Cases, In-a-Door Ironing Boards, Medicine and Bathroom Cabinets, Linen Cabinets, Grilles, etc. All illustrated and described in catalog No. 46—sent on request.

Manufacture

All Bertelsen products are made of carefully selected high grade lumber dried in their own kilns and made by expert cabinet makers. Doors are tongued and grooved. All veneers are three ply and every piece of furniture is hand smoothed, ready for finishing after being installed. There are no open corners or rough spots. Every article is carefully packed for shipment insuring arrival in first class condition.



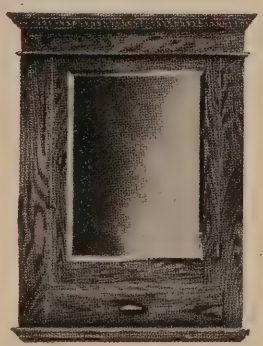
Baronial Bookcase Colonnade No. 644

This is an exceptionally beautiful Colonnade and is suitable for openings from 6 to 12 feet wide, up to 8 feet high. Doors are of the finest clear leaded glass set permanently into the best glazier's metal. Sides and back are nicely paneled. Panels are three ply veneer built-up stock with a finely figured grain. All panel settings come flush with stiles both inside and out. Shelves are adjustable. Doors carefully fitted. No casing, cap trim or hardware included.

Finished in White, hand-smoothed and sanded without stain or varnish. Prompt shipments from stock. Weight about 200 pounds.

No. 644 Yellow Pine $48.00
No. 647 Birch 66.00
No. 645 Oak $58.00
Hardware (Lemon Brass) 1.00

Built-In Medicine Cabinets



No bathroom is complete without a Bertelsen Built-In Medicine Cabinet, shipped promptly from stock and carefully crated. Cabinet shown sets in wall opening 19 inches wide, 28 inches high, 4 inches deep. Fine plate mirror is 14 inches wide and 18 inches high. Made of clear yellow pine. Shelves are adjustable. Has drawer at bottom.

No. 22 Yellow Pine, Plain Plate Mirror....$ 9.50
No. 22A Yellow Pine, Bevel Plate Mirror.... 10.00
Hardware ..... .60

Drawer or Pantry Case

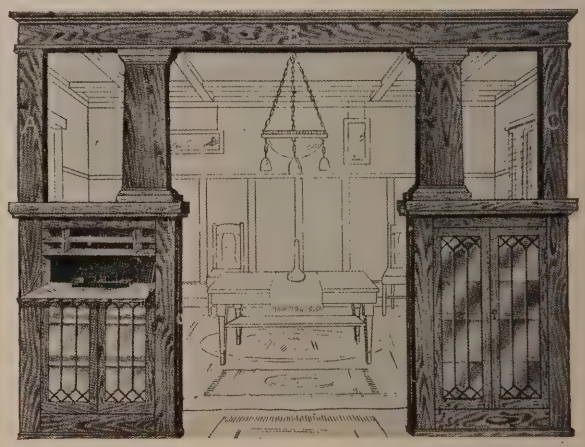
This handy chest of drawers will be found very convenient for use in either the pantry or clothes closet. It is large enough to be useful but not so big as to be in the way. Attractive and well built of yellow pine. Back and sides are not sealed. **Dimensions:** 2 feet, 8 inches high, 3 feet wide, 16 inches deep. Weight 75 pounds. Prompt shipment can be made from stock.



No. 155 (illustrated above
Yellow Pine $10.50
Hardware, extra .... .60

Castleton Combination Colonnade No. 657

This is an unusually attractive Combination Bookcase and Writing Desk Colonnade with a double door effect in pedestals that must be seen to be fully appreciated. Suitable for openings 8 to 14 feet wide. Columns are 7 inches square, tapered, 3 feet, 10 inches long and can be cut down to suit

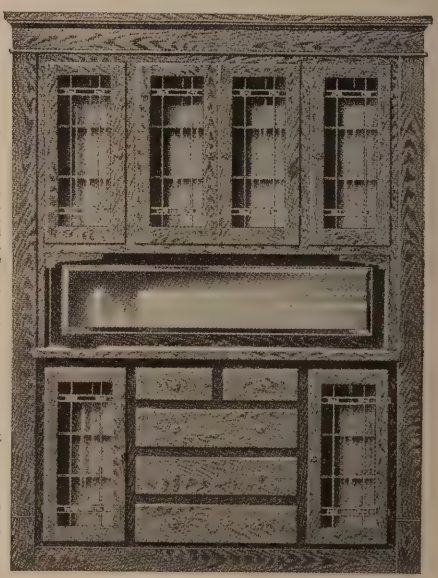


height of opening. Pedestals are 2 feet, 6 inches wide, 4 feet, 2 inches high, inside depth 10 inches. Shelves are movable. Doors are glazed diamond lights —double strength glass — set in best glazier's metal. Panels on pedestals are three ply built-up veneer, and face reverse and inside panels are alike. Stock is perfectly fitted to stiles on inside, same as face.

Furnished in White, without stain or varnish, all hand smoothed and sanded, ready for your finisher. No casing, jambs, head trim or hardware included. Prompt shipment from stock. Weight about 250 pounds. Can be furnished with full length doors in both pedestals if desired at same prices.

No. 657 Yellow Pine $60.00
No. 658 Oak 70.00
No. 663 Birch $78.00
Hardware (Lemon Brass) 2.00

Yorktown China Closet Nos. 130-131



All lumber dried in our own kilns—perfect seasoning assured. Expert cabinet makers handle every operation. Upper section has four tongued and grooved doors that cannot come apart. Doors glazed with art glass set in best glazier's metal. Three shelves in upper section and back closed with beaded ceiling. Bevel plate mirror is 54"x12". Fits recess opening 5' wide, 7' high, 14" deep. Made in top and bottom sections.

Furnished in white, without filler, stain or varnish, hand-smoothed ready for finishing. Prompt shipments from stock. Weight about 275 pounds.

No. 130 Yellow Pine .....$ 84.00
No. 131 Oak..... 100.00
Hardware, Brass Finish with Glass Knob. 5.00

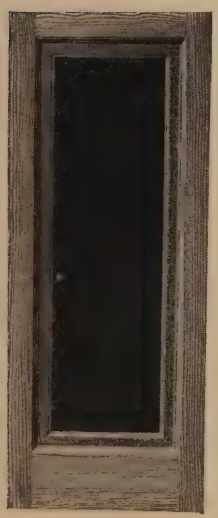
JONES High-Quality MILLWORK

Manufactured by
FRED G. JONES & CO., Incorporated.
LOUISVILLE, KENTUCKY

Products—Everything in high quality sash, doors, columns, moulding, cabinet work and wood work.



A few of Jones' Popular Styles of Windows.
☞(See our catalog for complete line)

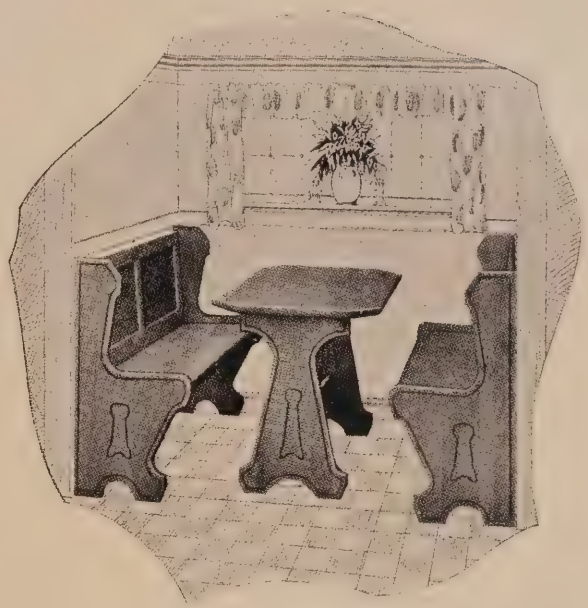


One Panel "Jones" Door

White pine stiles and rails, unselected red gum inner frame and panels.

Made in 1⅜" thick and 1¾" thick in all standard sizes from 1-6 x 6-6 to 3-0 x 7-0.

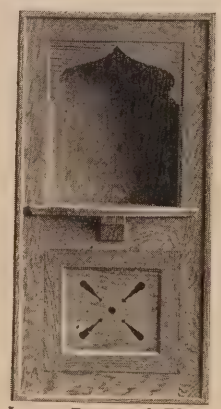
☞(See our catalog for our complete line of Doors)



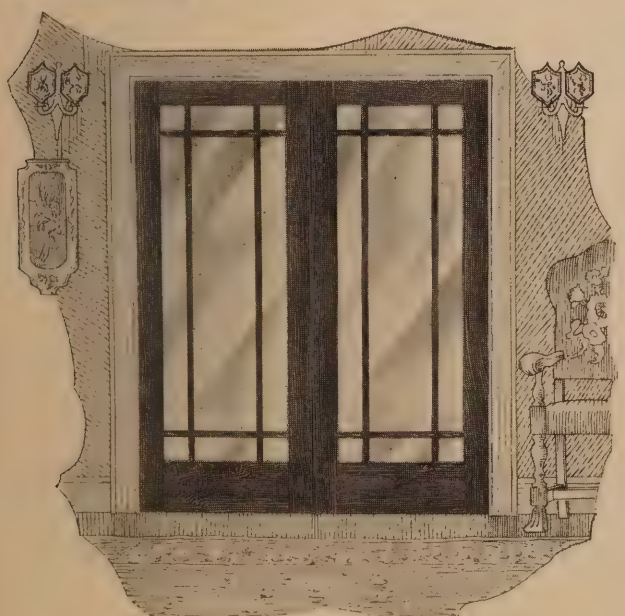
Jones Breakfast Nook
Beautiful in design and unexcelled workmanship.
(Send for sizes and details)



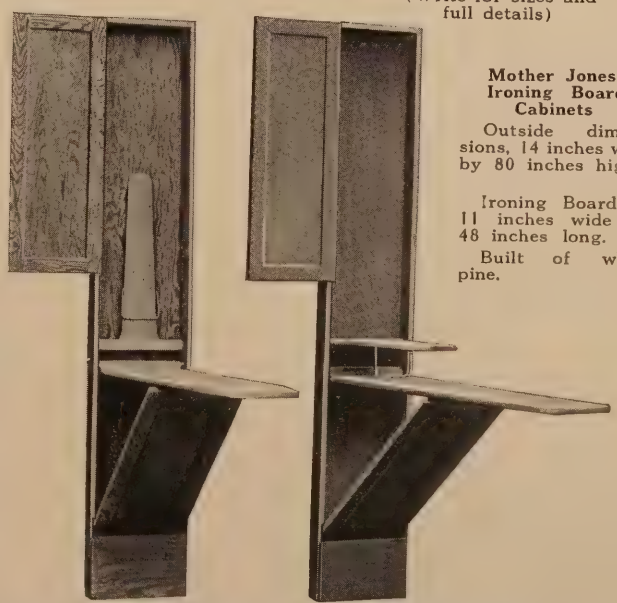
Jones Medicine Cabinet
Made to order in any size or any kind of wood.



Jones Recessed Phone Cabinet
Popular and practical.
(Write for sizes and full details)



Jones No. 818 French Doors
Made of No. 1 Quality White Pine.
☞(See Jones Catalog for sizes, etc.)



Mother Jones' Ironing Board Cabinets

Outside dimensions, 14 inches wide by 80 inches high.

Ironing Board is 11 inches wide by 48 inches long.

Built of white pine.

For further details and literature, write to: **FRED G. JONES & CO., INC.** Brook and Gaulbert Streets LOUISVILLE, KY.

Morgan Woodwork Organization

Manufacturers and Distributors
of

"MORGAN-QUALITY"
STANDARDIZED WOODWORK

Factory
Morgan Company
Oshkosh, Wis.
Sawmill Operations
Orin, Wash.—Forrest City, Ark.
Sales Office
New York City



Distributing Warehouses
Morgan Sash and Door Company
Chicago—Detroit—Cleveland

Look for this mark of dependable quality on every MORGAN product — MORGAN



Distributing Warehouses
Morgan Millwork Company
Baltimore—Jersey City
Greensboro, N. C.

MORGAN PRODUCTS—Manufactured by us from our own lumber grown in our own forests, have our personal supervision from before the time the trees are cut until the finished product leaves our warehouse to be distributed throughout the country. The trees used are felled by experienced woodsmen; our sawmills are the best. Our factories where the lumber is converted into Doors, Sash, Frames, Mouldings, Cabinetwork, Stairways, etc., are superintended by men of experience and only expert craftsmen are employed. Before any lumber can be used for the manufacture of our products, it goes through a drying process, first being air seasoned and later kiln dried until it has the exact moisture content as shown by thermostats made for that purpose. Only the best of materials are used, which, with the expert workmanship insures a finished product, rarely, if ever, equalled. In all our work only the best glue is used, the selection of which is made only after careful experiments. After the glue is applied, great hydraulic presses are used to securely hold the articles together until the glue has become thoroughly hardened or set. Mouldings are architecturally correct, and are made to fit exactly into their respective places.

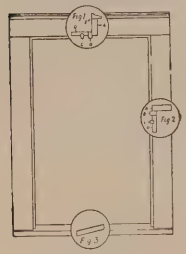
MORGAN Products consist of: Softwood Doors for exterior and interior use, Doors veneered with hardwood such as Oak, Birch, Gumwood, Mahogany, Walnut, etc., suitable for both interior and exterior use. Windows and Sash, Garage Sash and Garage Doors, Door and Window Frames, Pergolas, Shutters, Blinds, Cabinets, Casework including Buffets, Breakfast Nooks, Mantle Shelves, Colannades, Kitchen Cases, Linen Cases, Ironing Boards, Panelwork, Complete Stairways and Stair Parts, Exterior and Interior Mouldings and Interior Trim such as Casing, Base, Picture Moulding, etc.

All of our products are shown in the Master MORGAN HOME Book—"BUILDING WITH ASSURANCE" (shown to the right) and in our Price Supplement which can be obtained from lumber dealers and planing mills or from any of our Offices or Warehouses mentioned above.



"Building with Assurance"

Write nearest Morgan office for the beautiful prospectus No. 81 illustrating and describing "Building With Assurance."

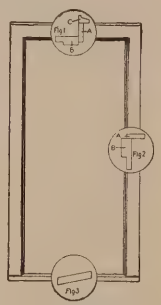


M 1800
Window Frame

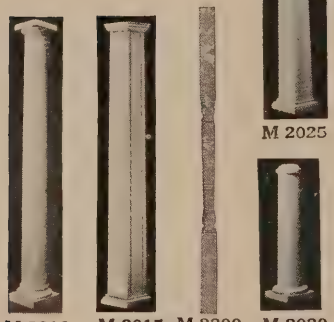
Frames for exterior doors and windows are made from White Pine accurately machined, and are packed for shipment in two bundles for each frame, the side members in one bundle and the head and sill members in another.

←M-1800 Window Frame —carried in stock in all standard sizes.

M-1801 Door Frame→ —carried in stock in all standard size doors.



M 1801
Door Frame



M 2010 M 2015 M 2200 M 2020 M 2025

←Exterior Columns, Newels and Porch Rail, made from No. 1 Fir carried in stock in standard sizes.

There is no added cost for "Morgan-Quality"



M 2030 M 2029 M 2033 M 2035

Porch Rails Ready for Shipment

GARAGE DOORS

Garage doors made from Fir—carried in stock for door openings 8'0" x 8'0" and 8'0" x 7'6". Not only are extra heavy dowels used in the construction of these doors but corrugated metal reenforcing pieces are driven thru the ends of the wood dowels. Joints cannot open or pull apart; the door cannot sag.



M 2159



M 2160



M 2158½



M 2160½

For Further Details and Literature Write Nearest Office Shown Above

Morgan Standardized Stock Doors

First Impression



It is the entrance that gives the first impression of the home. A beautiful and well manufactured door always carries a message of welcome, and prepares the arriving guest for the hospitality that is to be extended to him.

We all want homes to express character; to reflect our ideals of the better things of life. And here the door with its first vital impression must be expressive of hospitality and good taste.

Quality in the door is essential. It must open quickly and smoothly, close easily and securely. It must not shrink, swell or warp.


M 800


M 805

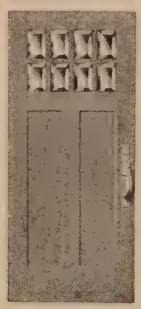

M 810


M 815


M 650


M 652


M 654


M 656


M 658½


M 670


M 677½


M 682


M 684


M 600


M 601


M 607


M 609


M 611

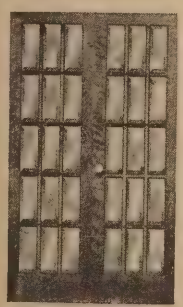

M 612


M 614


M 625


M 628


M 830


M 827


M 888

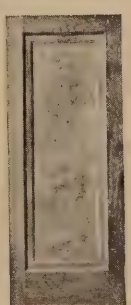

M 700


M 701

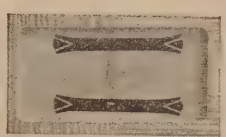

M 703


M 705

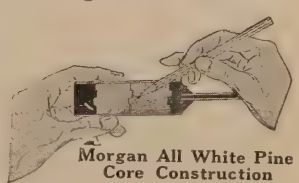

M 721


M 777

Complete list of sizes and kinds of wood carried in stock for prompt shipment can be found in the MORGAN Price Supplement of current issue. Send for your copy.


Morgan Wedge Dowel Construction

Correctness of detail and sturdy construction are assured users of MORGAN Doors. Solid White Pine doors for exterior and interior are made from kiln dried material, and put together with MORGAN Wedge Dowels (patented). MORGAN veneered doors are built with the core of softwood, kiln dried to a scientific moisture content that prevents swelling or shrinking. The frame is "riveted" together with MORGAN Wedge Dowels, making it impossible for the joints to open and allow the doors to sag. One-quarter inch veneer for exterior Doors is another distinctive MORGAN feature. The thick veneer combined with the all-White Pine core, gives a door that will withstand the effects of uneven indoor and outdoor temperatures.


Morgan All White Pine Core Construction

There is no added cost for "Morgan-Quality"

"MORGAN-QUALITY"
STANDARDIZED WOODWORK

MORGAN
Look for this mark of dependable quality on every MORGAN Product.

For Further Details and Literature Write Nearest Office Shown on Page 198

Morgan Flush Doors



Section of Flush Door
A—Face Veneer.
B—Cross Banding
C, D—White Pine Core Construction Grooved and Jointed—Glued.
F—Hardwood Edge Strips

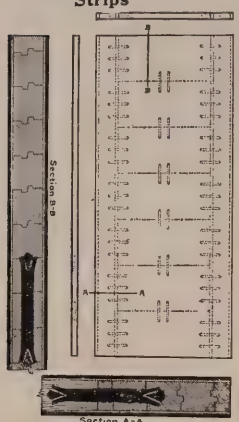


Fig. 1
Morgan Flush Door Construction

MORGAN Flush or Sanitary doors are recognized by leading Architects as the highest of standard door value based on Merit and Construction.

The core, or foundation, is built of softwood sections, thoroughly kiln dried, using our Wedge Dowel construction, with six-inch stiles and top rail and twelve-inch bottom rail. This foundation part of the door is put together with 54 MORGAN Wedge Dowels (See fig. 1) and surfaced, forming a perfect flush door in itself. The cross banding is then put on, over which is placed the vertical face veneer. The cross veneer and face veneer are glued to the core and kept in position with great hydraulic presses until thoroughly set.

Superior methods of door construction are reflected in our inlaid doors, the strips being placed in a manner that permits smoothing the entire door at one time.




M 900


M 902

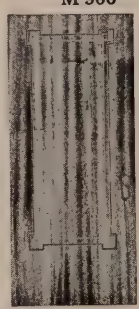

M 903


M 904


M 905


M 906


M 908


M 900 Inlay 926


M 900 Inlay 933


M 900 Inlay 935


M 901 Inlay 930

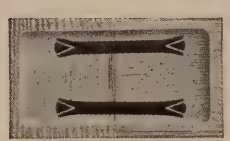
ENTRANCES

In modern architecture the Colonial type entrance with its many modifications is very popular. Here a Colonial Morgan entrance like that shown at the right (M-50½) is quite the correct thing to use.

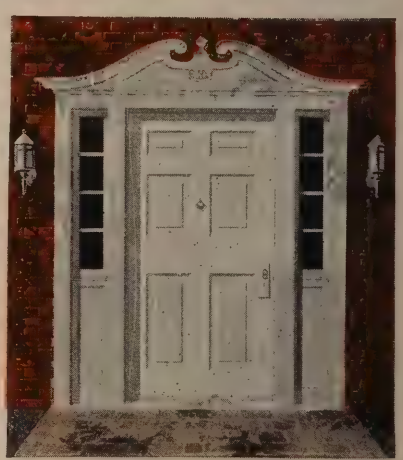
At the left is a modern design entrance (M-60) that can be installed at a very nominal cost and will prove wonderfully satisfactory as time goes on.

The bungalow design entrance shown below at the left (M55) has proved a very popular one and we believe it is justly deserving. The door of the flush type (M-55) is distinctly impressive with all its rich simplicity.


Entrance M-60

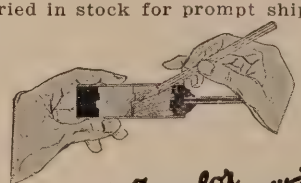


The illustration to the left shows graphically the operation of the Wedge Dowels. The doors made with MORGAN Wedge Dowels *cannot* pull *apart*. "As the core is, so is the door." We show below the construction of the White Pine core over which the veneering is placed for added beauty and distinctive appearance.


Entrance M-50½


Entrance M-55

Complete list of sizes and kinds of wood carried in stock for prompt shipment can be found in the MORGAN Price supplement of current issue. Write for your copy.



There is no added cost for "Morgan-Quality"

"MORGAN-QUALITY"
STANDARDIZED WOODWORK


French Doors—M-401

For Further Details and Literature Write Nearest Office Shown on Page 198

Morgan Windows



M 1000



M 1005½

Morgan Quality White Pine Windows are carried in stock in all standard sizes. Odd sizes can be made to order promptly from standard parts.

The Glass in MORGAN Windows and Sash rests in a bed of pure linseed oil putty, made according to an exclusive MORGAN formula. Our Putty forms a perfect non-chip, non-crack binder uniting wood and glass into a complete unit.

Only the best quality glass is used. We will not handle off-grade glass.



M 1002



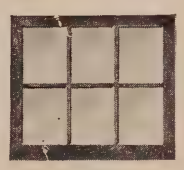
M 1250

MORGAN

Look for this mark of dependable quality on every MORGAN Product.

Complete list of sizes and kinds of wood carried in stock for prompt shipment can be found in the MORGAN Price Supplement of current issue. Send for your copy.

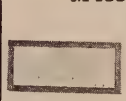
BARN SASH



M 1386



M 1384



M 1440 One-light Transom



M 1427 One-light Sash



M 1161 Cellar Sash



M 1407

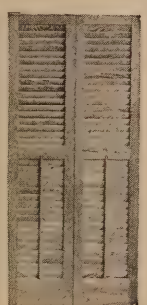


M 1401

Casement Sash, so much in demand at the present, either mar or add to the beauty of the home. Great care should be used in specifying Casement Sash properly manufactured from White Pine. Specify MORGAN for complete satisfaction.



M 1600



M 1601



M 1602



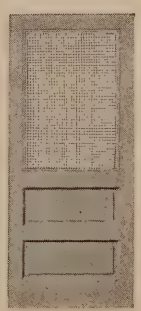
M 1605

Outside Blinds and Shutters are extensively used with the demand increasing in many localities. The requirements are for All Rolling Slats, Half Rolling and Half Stationary Slats, Part Slat and Part Panel, and All Panel with designs cut through the Panels.

There is no added cost for "Morgan-Quality"

"MORGAN-QUALITY"
STANDARDIZED WOODWORK





Combination Standard Storm and Screen Doors, easily changed with the season, are carried in stock in many different designs and all standard sizes. Each set is furnished complete, consisting of one sturdy permanent door, and two detachable panels, one of glass and the other of wire screen, fitted ready for immediate use.



Comb Screen

M 1500



M 1505



M 1506



M 1507

For Further Details and Literature Write Nearest Office Shown on Page 198

Morgan Cabinet and Casework

MORGAN Cabinet and Casework is made in many different designs, a few of which are illustrated on this page. It adds distinction to the home in addition to being permanent furniture. Homes with built-in features are models of convenience and comfort—thoroughly modern.

Built-in Fixtures are a permanent part of the building and it is well to consider quality as well as price. It is always well to bear in mind that: "The sweetness of low price never equals the bitterness of poor quality."



M 514—Colonial Mantle



M 395½—Breakfast Nook

A delightful, cozy breakfast nook. Ample room for serving four.



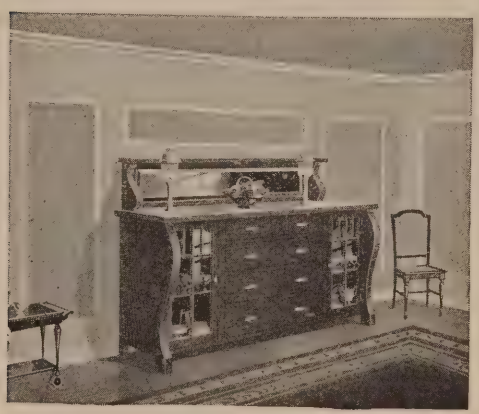
M 375½—China Cupboard

This built-in China Cabinet lends an air to the corner of this room. Its shelves give ample space and simplify the duties of serving.



M 426—Kitchen Cabinet

This modern cabinet meets every kitchen need; bins, drawers, and compartments just where they are the most convenient. It is a pleasure to work in a kitchen with such equipment.



M 369½—Buffet

MORGAN

Look for this mark of dependable quality on every MORGAN product.



M 307—Colonnade

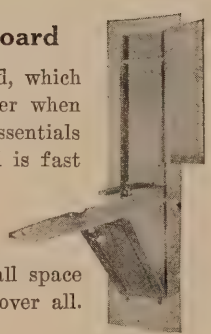


M 527—Bookcase

Built-in Ironing Board

A Built-in ironing board, which takes up no space whatever when not in use is one of the essentials of the modern kitchen and is fast becoming recognized as almost indispensable.

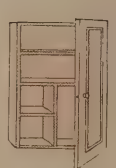
Design M-436 illustrated is made to fit in wall space rough opening 14″ x 82″ over all.



M 436

Medicine Cabinets

Model shown is 16x22 inches—6½ inches deep. The interiors of these cabinets are models of compact and convenient arrangement. Constructed to accommodate long bottles.



M 485

"MORGAN-QUALITY" STANDARDIZED WOODWORK

There is no added cost for "Morgan-Quality"

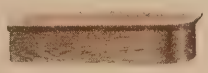
For Further Details and Literature Write Nearest Office Shown on Page 198

MORGAN Stairwork made by expert craftsmen are things of beauty and correct proportions. Parts suitable for many stairs are carried in stock in standard woods and sizes for immediate shipment, a few of which are shown below.



M 1740 Stair Newels

M 1741



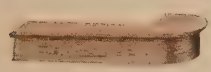
M 1725 Starting Step



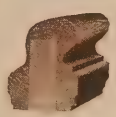
M 1767A



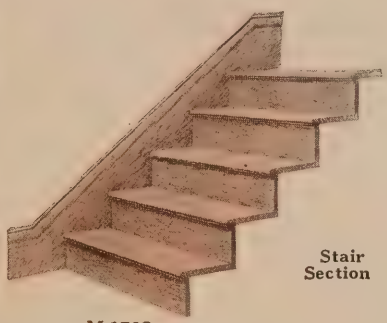
M 1727 Starting Step



M 1726 Starting Step



M 1766A Stair Rails



M 1702 Stair Section

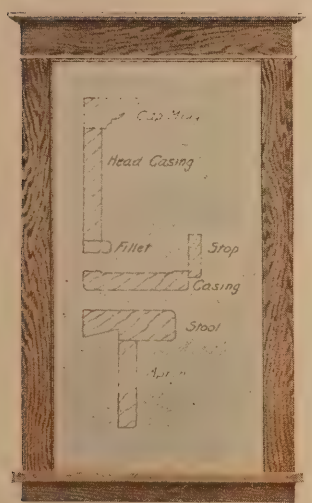


M 203—Modern Stairs

All MORGAN stairways are designed with a special regard for comfort.







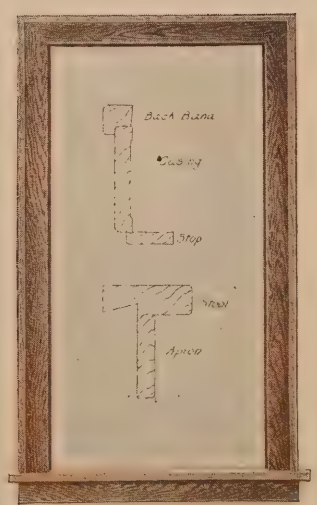
M 9001 Window Trim



M 721 Wedgewood Door

The special feature of this unusually attractive door is the neat solid sticking and moulding on both sides of the laminated panel.

Back band trim around door same as M 9002 shown to right.



M 9002 Window Trim

MORGAN Interior Trim and Mouldings like designs shown, and many others are carried in stock in Oak, Birch, Gum and Yellow Pine.

All Hardwood Mouldings for the interior are kiln-dried to the proper moisture content, properly machined and flat surfaces machined sanded.

Yellow Pine Mouldings are smoothly machined but not sanded.

All Hardwood Mouldings are wrapped in paper before shipping.

MORGAN

Look for this mark of dependable quality on every MORGAN product.

A complete list of stock Mouldings can be seen by referring to our Price Supplement, a copy of which can be obtained from your dealer or any MORGAN Woodwork Organization Office.

"MORGAN-QUALITY" STANDARDIZED WOODWORK

There is no added cost for "Morgan-Quality"

For Further Details and Literature Write Nearest Office Shown on Page 198

THE MORGAN LOCKWOOD DOOR (M-777)



Lockwood M-777. MORGAN Door manufactured with an inner frame, and made with solid sticking is now furnished in standard sizes. It is carried in stock in Birch, Unselected Gum, Red Gum and Plain Red Oak, all veneered over MORGAN White Pine [1]Core and "riveted" together with MORGAN [2]Wedge Dowels. (patented). All Veneers are one piece (not spliced). *Its equal cannot be found!*

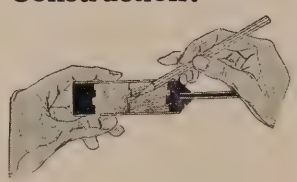
Lockwood M-877. A door of the same design but manufactured with White Pine Stiles and Rails and a 3-Ply, one piece, (not spliced). Panel of Birch, or Unselected Gum is also obtainable out of stock on hand.

Ask your dealer for information or write the nearest MORGAN Office.

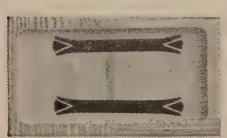


Lockwood M-777

[1]The MORGAN White Pine Core Construction:



The cores for Morgan Hardwood doors are built up of glued sections of White Pine which experience has proved is the best material for this purpose. The illustration to the right points out the solid core construction which justifies the statement that "as the core is, so is the door". Veneering is added for beauty and appearance.



[2]The Exclusive MORGAN Wedge-Dowel Construction

As in other Morgan doors the Wedge Dowels (patented) are used in the construction of the Lockwood Door. Their operation is shown in the illustration to left, and indicates plainly why Morgan doors are both permanent and beautiful. There is not a bare possibility of this door warping, twisting or falling apart.

Look for this mark of dependable quality on every MORGAN product.

MORGAN

Complete list of sizes and kinds of wood carried in stock for prompt shipment can be found in the MORGAN Price Supplement of current issue. Send for your copy.

"MORGAN-QUALITY" STANDARDIZED WOODWORK

MORGAN WOODWORK ORGANIZATION

Distributing Warehouses	Factory	Distributing Warehouses	Sales Office
Morgan Sash and Door Company Chicago—Detroit—Cleveland	Morgan Company Oshkosh	Morgan Millwork Company Baltimore—Jersey City Greensboro, N. C.	New York City

For Further Details and Literature Write Nearest Office Shown on Page 198

Phoenix Built-In Telephone Cabinet

Made By

PHOENIX CABINET COMPANY, Inc.

417-419 Union Bldg., Syracuse, N. Y.

Agencies in Principal Citits

Phoenix Phone Cabinets: (Patent Pending)

This is a complete unit consisting of an upper compartment or niche in which the telephone sets when not in use. A compartment underneath, provided with a grilled, hinged door, completely conceals the bell box and provides space for telephone directory as well.

These cabinets add to the beauty of any room in which they are placed. They harmonize with the appointments of the room and add dignity to the furnishings.

They can be placed in an outside wall, partition, under a stairway, in built-in book shelves—in fact any place where they will be architecturally effective and convenient for telephone use.

Phoenix Phone Cabinets are being used by leading architects and contractors in private homes, apartments, hotels, clubs, etc., and have the approval of Telephone companies. They reduce the amount of wiring and protect the phone from injury.

SCHEDULE OF PRICES STANDARD DESIGNS, IN NATURAL WOODS

If cabinets are to be finished add $5.00 per cabinet to prices below.

		Style A	Style B	Style C	Style D	Style E
Gum Wood	Stock	$27.00	$24.00	$32.00	$21.00	$30.00
White Wood	Stock	28.00	24.00	32.00	21.00	30.00
Selected Birch	Stock	28.00	24.00	32.00	21.00	30.00
Mahogany	Stock	29.50	25.00	35.00	22.00	33.00
Red Oak	On order	28.00	25.00	32.00	21.00	30.00
White Oak	On order	28.00	25.00	32.00	21.00	30.00
Quartered Oak	On order	30.00	25.00	32.00	22.00	30.00
American Walnut	On order	31.00	27.00	35.00	24.00	33.00

NOTE—For 2, 3 and 4 inch partitions add 10% to above prices to cover extra labor and materials. Cabinets can be furnished with single or double doors to upper phone niche—prices on application. Prices quoted on special designs according to details. All prices F. O. B. Syracuse, N. Y. Terms—cash or C. O. D.

When ordering—Give thickness of partition and material of which it is built.

Five Standard Styles

Style A—Colonial, circular top, molded band on edge. Grilled door hinged at bottom to form desk.

Style B—Colonial, circular top, flat band on edge. Grilled door hinged at bottom to form desk.

Style C—Double-faced cabinet, door on one side, upper niche opening from either side of partition, giving access to phone from two different rooms.

Style D—Square-top cabinet, ornamental top piece and flat band on edge, grilled door hinged at bottom to form desk.

Style E—Cabinet made to fit in a right angle corner.

Note: See price schedule at top of page, right hand column.



Cabinet installed in Entrance Hall

Installating

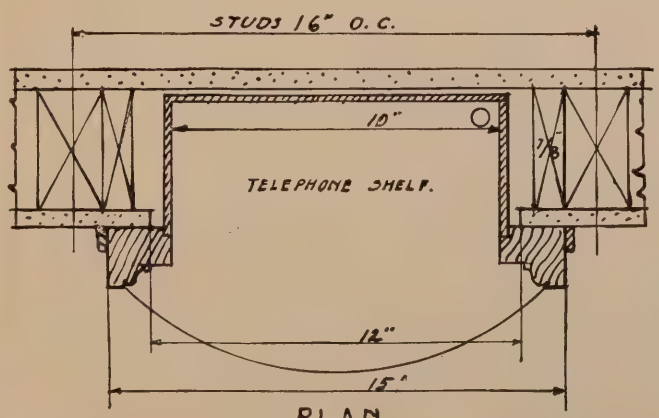
Phoenix Phone Cabinets are easily installed in either new or old construction. Standard cabinets fit into walls or partitions not less than 5 inches thick, and between studdings set 16 inches on centers. Cabinets are also made for 2, 3 and 4 inch partitions. The cut-out is approximately 12 inches wide and 29½ inches high, with circle top.



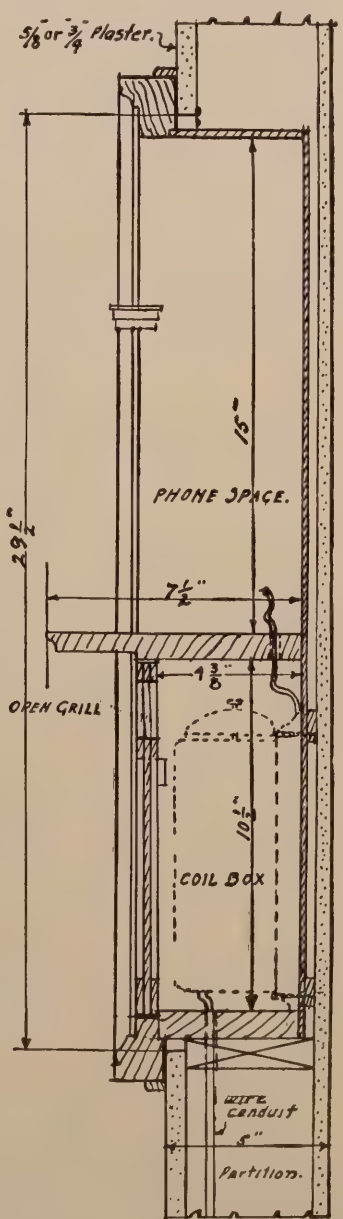
Style A, grilled door open to show box. A beautiful colonial design suitable for best class of work.

New Work: Locate as directed by owner and as per details of installation furnished by manufacturer.

Old Work: Lay out on wall the shape of back of cabinet. Place ⅞ inch heading from studding to studding upon which to rest and fasten cabinet, and heading at top to secure head casing. Wall back band can be removed and replaced after fastening cabinet in place.



PLAN.



SECTION.

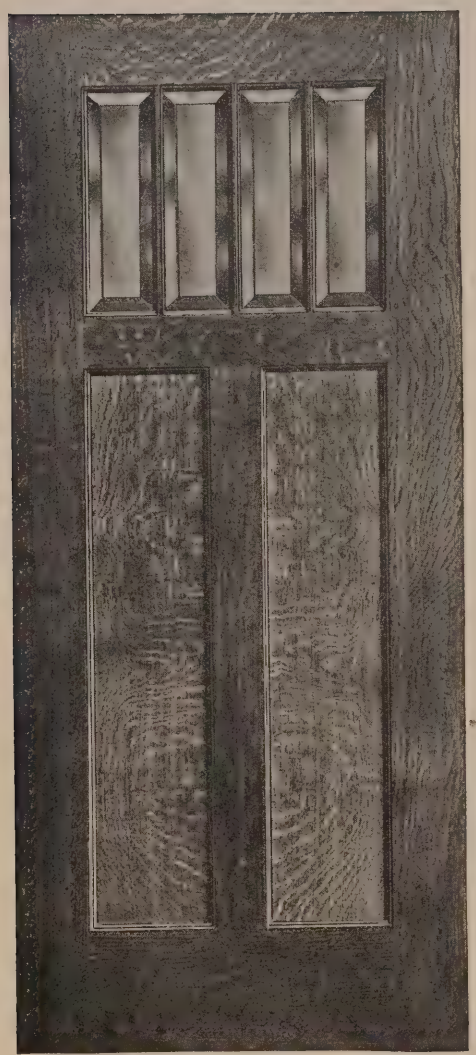
For further details and literature, write to: **PHOENIX CABINET COMPANY, Inc., Syracuse, N. Y.**

ROBERTS MILLWORK

Made by

ROBERTS SASH & DOOR COMPANY

908-34 W. Cullerton St., Chicago



1244
Illustrations shows Quartered Oak

This door is particularly suitable for bungalows or homes of that general character, as the long vertical panels give an impression of height.

1600

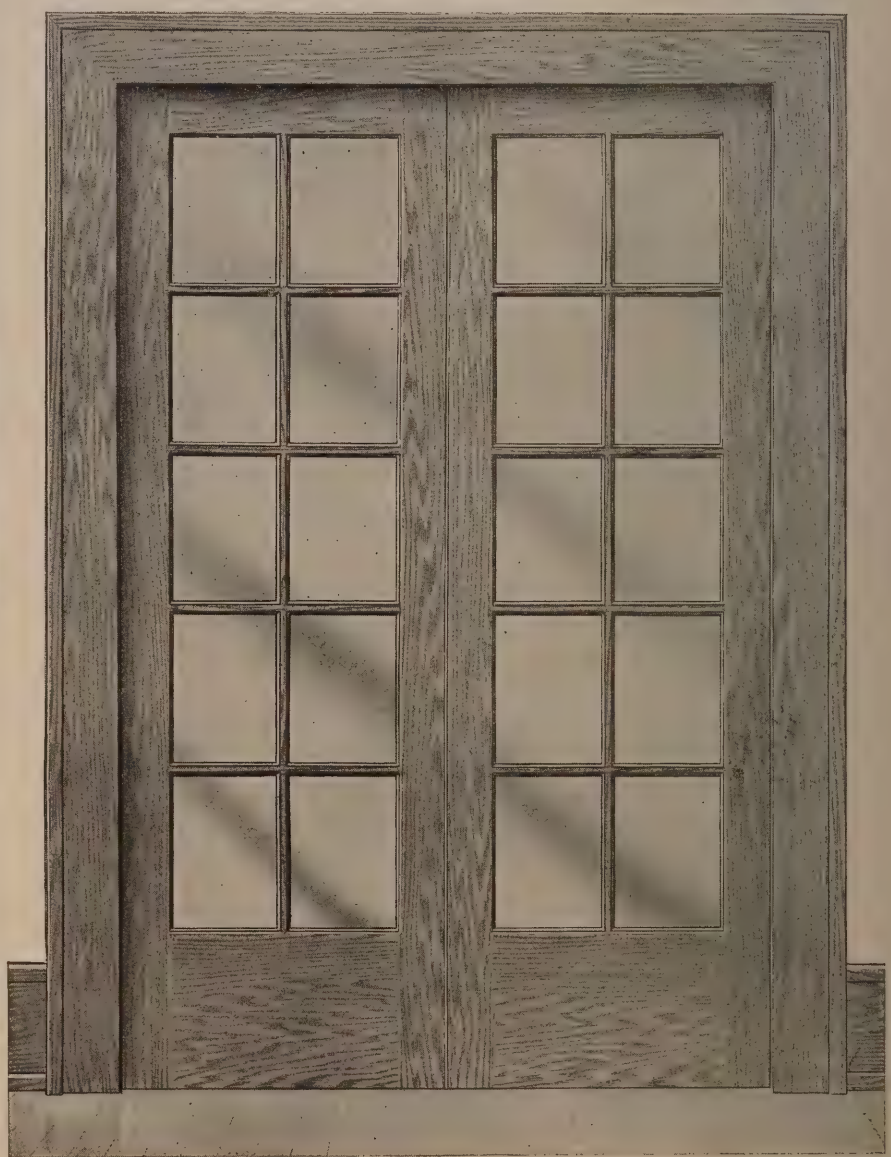
The graceful lines of these French Doors are decidedly pleasing. Doors of this pattern look well opening into a sun room or enclosed porch. These doors are carried in Oak, Pine and Fir. Cremone bolts—the correct Hardware for French doors, are carried in stock by hardware dealers.

Trade Mark

This company manufactures a complete line of mill work for interior and exterior use such as Ceiling Beams, Blinds, Blocks, Breakfast Nooks, Buffets, Cabinets, Closets, Colonnades, Consoles, Doors, Casement Sash and Frames, Ironing Board Closets, Kitchen Furniture, Lawn Arbors and Trellises, Mantels, Medicine Cabinets, Mouldings, Panels, Rolling Partitions, Pergolas, Plate Rail, Porch Work, Sash, Screens, Sideboards, Stair Work, Store Fronts, Storm Sash and Doors, Windows, Window Seats, etc. Roberts Price Pilot—the most complete and convenient information book published. It illustrates and describes many Roberts products and is full of interesting and useful information. Get Prices through Local Dealers.



R1625 Frenchador
Stiles 5″ Face, Bottom Rail 11½″ face, White Pine, Plain Oak Veneer, or Birch Veneer.



For further details and literature, write to: **ROBERTS SASH & DOOR CO., Chicago**

Breakfast Nook No. 2865

The breakfast nook illustrated includes two seats and one table, made of white pine, unfinished.

Space for this breakfast nook should be not less than five feet, six inches nor more than six feet wide.

The table top measures 2 feet 6 inches wide and 4 feet 10 inches long and is 2 feet 6 inches above the floor.

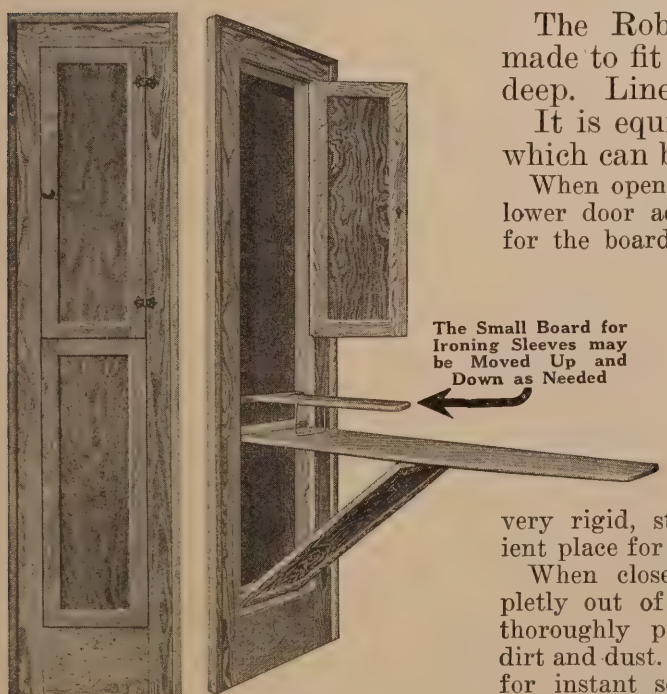
Seats are 3 feet, 2 inches high, 1 foot, 6 inches wide, and 5 feet long.

Other styles can be made to order but require more time and prices are considerably higher than the nook illustrated.

Breakfast nooks can be conveniently placed in or near the kitchen as they require comparatively little space and save time and many steps in serving the family meals.



Roberts "Winner" Ironing Board Cabinet



CLOSED

Out of the way.
Protected from dirt and dust.
Always ready for service.

OPEN

Lower door acts as brace.
Sets up rigidly.
One end free for slipping dresses, etc., over end.

The Roberts "Winner" Ironing Board Cabinet is made to fit a rough opening 14 inches wide and 4 inches deep. Lines with a 6 foot, 8 inch door.

It is equipped with a small board for ironing sleeves which can be moved up or down as needed.

When opened for use the lower door acts as a brace for the board and makes a very rigid, strong, convenient place for ironing.

When closed it is completly out of the way and thoroughly protected from dirt and dust. Always ready for instant service. Much more satisfactory than a portable ironing board in every way.

Made of soft wood, no trim included.

Shipping weight packed is 32 pounds. Three or four can be conveniently packed in a crate.

Sold through Local Dealers.



Neater and More Convenient than the Portable Ironing Board

For further details and literature, write to: **ROBERTS SASH & DOOR CO., CHICAGO**

RODDIS FLUSH DOORS

Manufactured by

RODDIS LUMBER & VENEER COMPANY

MARSHFIELD, WISCONSIN

Branch Offices in All Principal Cities throughout the World.

Description

Roddis Flush Doors are of five-ply construction and differ from the panel-type of door in that the five plies of wood run solidly from top to bottom with no panels or moldings. In appearance, these Doors are one piece of solid wood, with smooth unbroken surfaces of great natural beauty.

Exclusive Features and Merits

By installing Roddis Flush Doors, the building profits from these advantages which are obtainable in no other make of doors. They should be recommended in all cases where these features are wanted:

(1) Fire-resisting. They may be depended upon to bar the spread of flame from any room they guard.

(2) Soundproof. The solid thickness of wood serves as a positive blanket for noise.

(3) Sanitary. There are no panels, no moldings, no cracks to gather and to hold dust or dirt.

(4) Impervious to moisture. Waterproof glue throughout renders these Doors immune to harm from water.

(5) They can not shrink, swell, sag, warp, separate nor check—regardless of severity of usage.

(6) They are guaranteed to deliver perfect performance and will be replaced if found defective.

(7) They are the most beautiful doors procurable. No unsightly panels or moldings mar the broad surfaces of natural wood.

(8) They can be had in any desired wood for finishing in any specified manner; and inlaid, to answer any decorative scheme.

Construction

All Roddis Doors are of the exclusive design of five-ply construction as illustrated.

The core is of softwood blocks uneven in length to absorb any tendency toward warpage. These are cemented with waterproof glue, providing a core of unchangeable shape and size with multiple the strength of a one-piece core.

Around the core—top, bottom and both sides—is an edge-strip of hardwood ¾ inch thick applied with waterproof glue. This contributes added strength and seals the core from moisture at the edges; also furnishing a smooth edge for hardware.

The cross band of strong veneer, $\frac{1}{16}$ inch thick, is glued over the two sides of the door, the grain of the veneer running across the door. This seals the two faces against moisture. With the edge-strip, it locks the core in an airtight compartment—the core can not change from its original dimension.

The surface veneer, $\frac{1}{16}$ inch thick, is applied with the grain running vertically. This may be of any wood desired to conform with interior decorative plans.

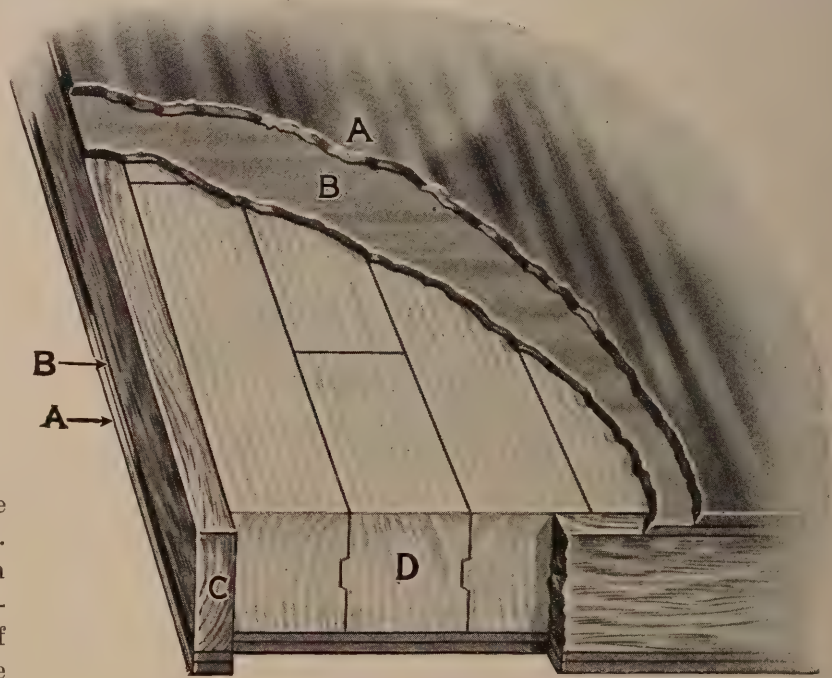
Under a hydraulic press, the assembled door is squeezed into permanent alignment. It is given a true, square and even surface which is retained under severest service conditions.

The flush door is unlike the stile-and-rail type in surface, weight and construction. It is five plies of wood and waterproof glue, from top to bottom.

We are practically the originators of the flush door in a commercial way and have made no change in this basic construction for 18 years.

Veneers

Unless otherwise specified, $\frac{1}{16}$-inch veneer is used on all doors. Long experience proves the correctness of this specification. Fine pianos and furniture use veneer 1/24 or 1/28 inch thick.



Detail of Roddis Door Construction

A—Surface veneer of desired wood for finishing.
B—Cross banding veneer sealing faces of the core.
C—Hardwood edgestrip ¾ inch thick on all edges.
D—Core of narrow soft-wood strips glued to provide unchangeable foundation for veneers.

RODDIS FLUSH DOORS (Cont'd)

Inlays

Inlays are furnished in any design, in plain or fancy woods. Crests, numbers, names and special designs can be supplied. Before inlaid, doors should be stained in order to protect the inlay. This is important and should be handled at our plant.

Guarantee

This Company unconditionally guarantees every Roddis Door and agrees to repair or replace without charge any doors that within two years should be found defective in workmanship or material.

Gain in Beauty Save in Cost

Not only is a room of far greater lasting beauty obtained by using Roddis Flush Doors but the cost is no more than that of trimming rooms the old way, using the common, old-style panel door.

Instead of using an expensive hardwood for the trim, a big saving is effected by using gum, fir or some other low-priced wood. This is painted or enameled either a glossy or egg-shell finish of white, ivory, pearl gray or similar light color. The walls are done in color to harmonize.

Against this background, the Roddis Flush Doors stand out in rare beauty. The result is a room bright and cheery, of modern appearance, and devoid of the sameness of one finish of wood throughout.

For all Buildings Small and Large

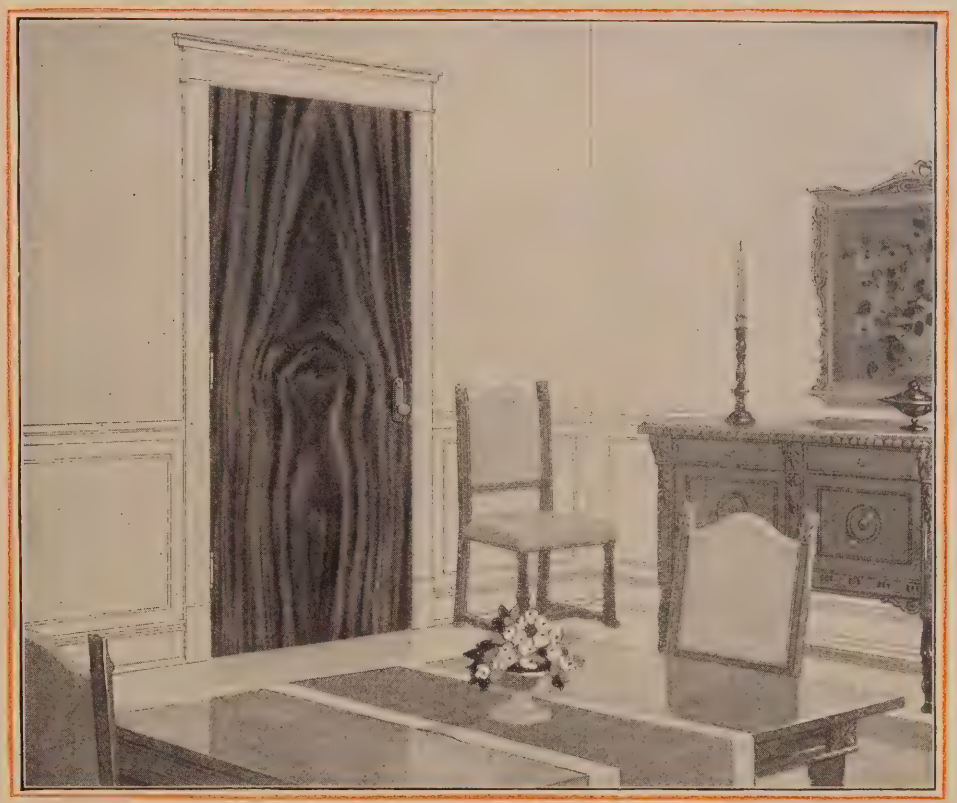
Roddis Flush Doors are suited equally to small homes and largest buildings. Prominent hotels, hospitals, apartments, schools, public buildings and attractive homes in all sections of the country have used them for many years. As few or as many Doors as needed can be bought.

Always in Stock 24 Hours Shipments

These Doors are carried in all standard sizes and are ready for instant shipment. Special Doors to meet architects' specifications are produced as needed. Inlay and other special work is quickly handled.

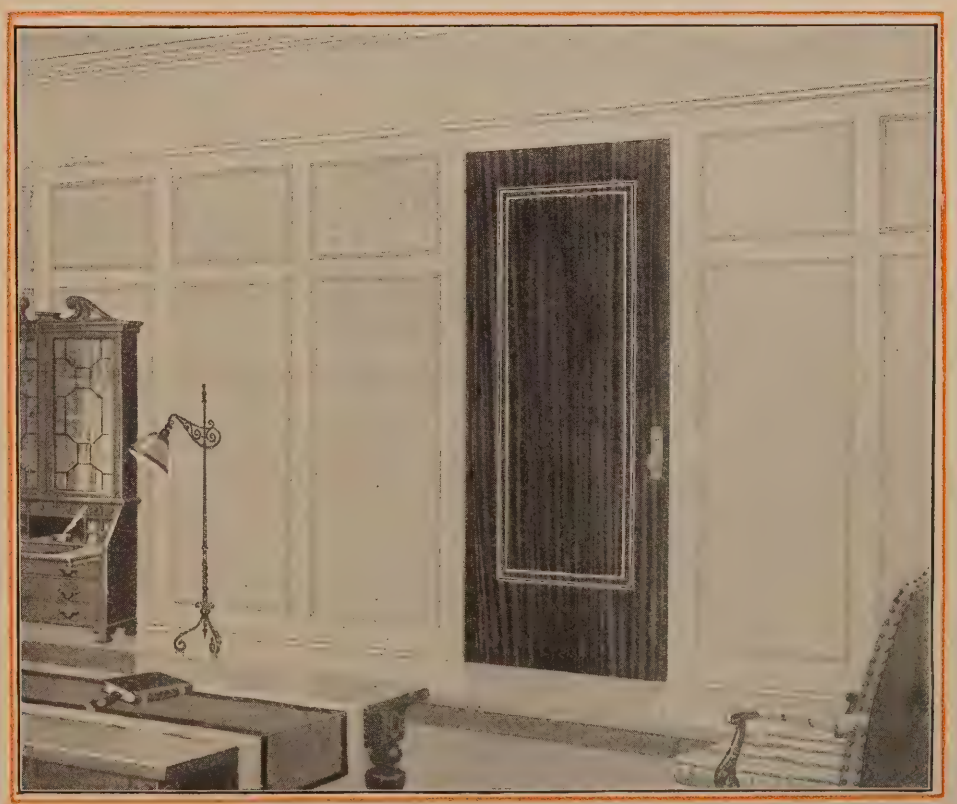
Reference Catalogs

Complete Reference Catalogs and Special Bulletins are available for aid in door installations and will be mailed upon request. Prices on standard sizes, and quotations on special work or large installations are promptly submitted.



Note how the woodwork painted in light colors emphasize the beauty of the darker-toned furnishings. The Door's broad surface of natural wood blends with the large pieces of well-finished furniture. The Door is of mahogany and adds to the decorative value of the room.

For living rooms, libraries, halls and similar rooms, inlays give beautiful effects. This work is special, costs comparatively little per door, and is done at the factory. Exquisite effects are obtained at low cost. Many other beautiful effects can be worked out to fit individual needs.



For further details and literature, write to: RODDIS LUMBER & VENEER CO., Marshfield, Wis.

Watsontown Standardized Millwork

Manufactured By

ESTABLISHED 1866

WATSONTOWN DOOR AND SASH CO.

WATSONTOWN, PA.

PLANT COVERS 16 ACRES

Products

We manufacture and carry in stock large quantities of

Frames	Porch Material
Windows & Sash	Mouldings
Blinds	Stair Material
Doors	Cabinets

Quality

For over 60 years the Watsontown Door & Sash Co. has furnished millwork to thousands of satisfied dealers who know why we can and do sell the finest products at reasonable prices. Fire destroyed our entire plant in 1923 and after rebuilding, we installed the most modern system of cost production.

Example—All waste wood provides electricity to run plant without burning coal and the surplus current is sold to the city.

This and many other economies in the efficient operation of the plant, and the standardizing of our products, enable us to produce the best quality millwork at the minimum cost and to sell at very reasonable prices.

Estimates

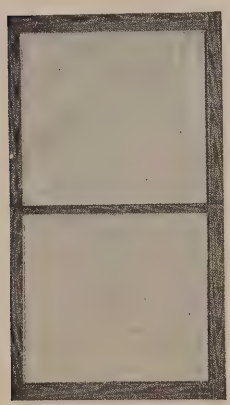
We specialize in stock millwork so therefore send us your stock millwork lists for estimates. Our many facilities enable us to give you better quality and service at lower prices.

To the Contractor— If your local dealer does not carry a line of Watsontown Millwork write us direct giving name of dealers.

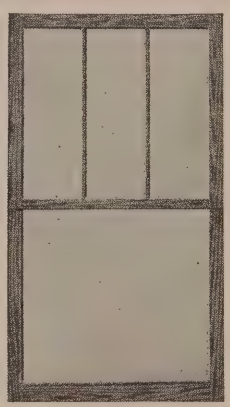
Prompt Shipments

Our mill cuts up every year around 13 million feet of lumber in the manufacture of our products, making over 500 cars of millwork annually.

We carry in stock 20,000 windows, 15,000 doors, mouldings, porch material, stair material, etc., in equally large quantities, thereby assuring you of prompt shipments at all times.



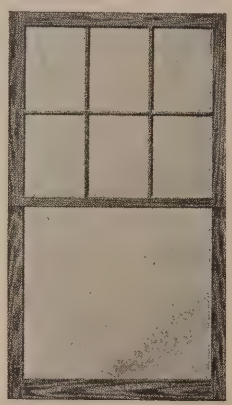
Two light check rail windows are 1⅜ inches thick Philadelphia and Baltimore openings.



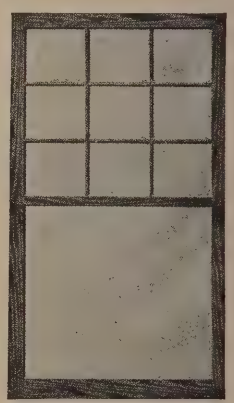
No. W 1
Stiles and rails are mortised and tenoned and glued.



No. W 2
Bars and muntins are mortised and tenoned (not slip tongued) ⅞" between glass.



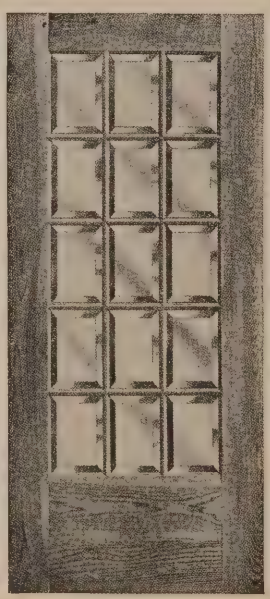
No. W 6
All check rail windows are double-rabbeted to prevent air leakage.



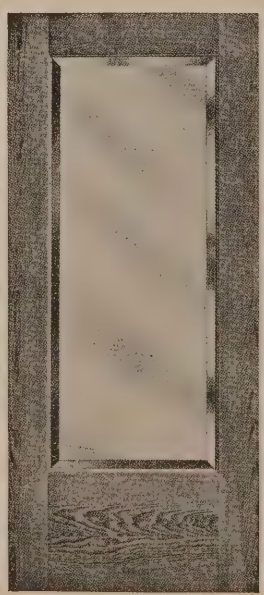
No. W 8
All "Watsontown" sash are plowed and bored for cord and sanded ready for the finish.



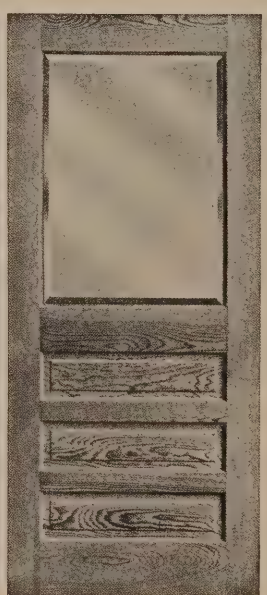
No. W 100 A—WHITE PINE
Front doors should be selected to harmonize with style of building.



No. W 115—SOLID WHITE PINE
5½" stile and top rail, 15½" bottom rail, 1½" bars, beads for glass.



No. W 100—SOLID WHITE PINE
Doors with full lengths glass admit plenty of light to vestibule.



No. W 119—SOLID WHITE PINE
This door is ideal for modest homes of moderate cost.





W 139—W 138 SOLID WHITE PINE
Either of these sidelights will match with door No. W 115.

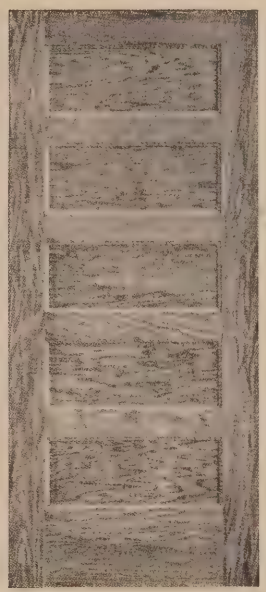
For further details and literature, write to: **WATSONTOWN DOOR AND SASH CO., Watsontown, Pa.**



1 PANEL DOOR
Door stiles and rails California W. P. panels 5/16" veneered birch or gum.



No. W 123
2 regular panel door. W. P. S. & R. Veneered panels. Best grade. Birch or gum.



5 CROSS PANEL DOOR
Our doors offer unusual value for the money.



No. W 106
COLONIAL FRONT DOOR
Popular front door for colonial homes made of solid white pine.

FRENCH DOORS

No. W 117¾

Very popular and effective when used in sun parlors.

Stock Sizes
5′ 0″ x 7′ 0″
5′ 0″ x 6′ 8″
5′ 0″ x 6′ 6″
6′ 0″ x 7′ 0″
Other Sizes

Illustration shows the popular 3 member cap trim.

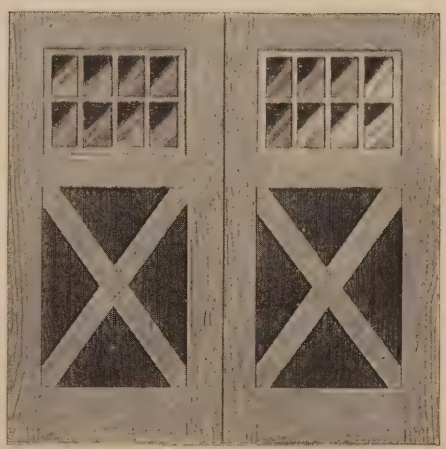


WATSONTOWN GARAGE DOORS

No. W 175

Glazed garage doors are neater in appearance and provide additional light. Pair of doors can be hinged or hung on tracks. Opening 8′ 0″ x 8′ 0″.

Solid No. 2 White Pine, 6 in. stile and top rail, 9½ in bottom rail, 8 in. lock rail, eight lights beaded panels cross braced or vertical panel.





Kitchen Dressers at Low Prices are Indispensible Utilities in the Modern Kitchen.

All showing parts clear grade, in wood specified, shelving selected small knotted W. P. 13/16″ front, 13/16″ counter, 11¼″ deep above counter, 16¾″ below counter.

Made in Yellow Pine, Basswood or Cypress.

Stock Sizes
4′ 0″ x 8′ 0″
4′ 0″ x 8′ 6″
4′ 5″ x 8′ 0″
4′ 5″ x 8′ 6″



BREAKFAST SETS

No. W 385—Breakfast sets include two seats and table as shown, for space not less than 5 ft. 6 in. wide by 4 ft. and 6 in. deep. Made from clear white pine and furnished in white.

Wilbur-Woodwork

Made by

WILBUR LUMBER COMPANY

Waukesha, Wisconsin



Exterior Hardwood Door No. 1850

Wisconsin and Illinois Contractors—Attention

When you want

"Extra Good Millwork"

Specify WILBUR WOODWORK

Made by

WILBUR LUMBER CO.

Waukesha, Wis.

Sold through retail lumber dealers only.

Rapid transit truck service to Southeastern Wisconsin and Northern Illinois points.

Exterior Hardwood Door No. 1850:

The door illustrated to the left is made of Unselected Birch and may be had in four standard sizes, veneered in any kind of wood, and glazed with any glass selected. It has bead and cove sticking. Stiles and Top Rail have 6-inch face, Bottom Rail 18-inch face.

Standard Sizes	Corner Lights	Ends Lights	Side Lights	Center Lights
2/8x6/8	5x5	5x 8¾	5x44¾	8¾x44¾
3/0x6/8	5x5	5x12¾	5x44¾	12¾x44¾
2/8x7/0	5x5	5x 8¾	5x48¾	8¾x48¾
3/0x7/0	5x5	5x12¾	5x48¾	12¾x48¾

Hardwood Slab Door No. 1874:

The door illustrated to the right is made of Unselected Birch in four standard sizes, with ¼-inch veneers but can be made in any wood, and in any size. Glazed with any glass selected.

Standard Sizes	Side Lights	Center Lights
2/8x6/8	5 x18	5 x30
3/0x6/8	6¼x18	6¼x30
2/8x7/0	5 x18	5 x30
3/0x7/0	6¼x18	6¼x30



Hardwood Slab Door No. 1874



Kitchen Cupboard No. 3048

Kitchen Cupboard

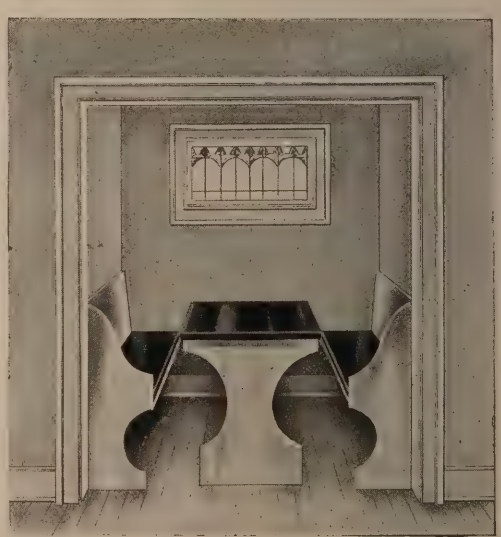
No. 3048 (at left):

This beautiful cupboard has ample shelf, drawer and closet space for any kitchen. It also provides plenty of table working space, conveniently arranged for dishwashing, etc. It is made of Yellow Pine or Sap Gum, the width of opening is 12 feet overall, height 8 feet, 6 inches. Made 16 inches deep below counter and 12 inches deep above counter. There is no back.

Breakfast Nook

No. 3044 (at right):

This cosy Breakfast Nook illustrated at right, is made of Yellow Pine, Sap Gum, or Unselected Birch. It is made for an opening 6 feet wide and 4 feet 6 inches deep. It consists of a table and two seats. Trim for cased opening not included.



Breakfast Nook No. 3044

For further details and literature, write to: **WILBUR LUMBER COMPANY, WAUKESHA, WIS.**

LAMINEX DOORS

Manufactured by

THE WHEELER, OSGOOD COMPANY

TACOMA, WASHINGTON

SALES OFFICES:

NEW YORK, N. Y. 5622 Grand Central Terminal
CHICAGO, ILL., 653 North Mayfield Avenue
MEMPHIS, TENN., 1870 Peabody Avenue
LOS ANGELES, CAL., 1617 East 16th Street
SAN FRANCISCO, CAL. 112 Market Street
SPOKANE, WASH., 806 Old National Bank Building
LONDON ENGLAND, Woco Door Company, Dashwood House
PARIS, FRANCE, E. J. Van de Ven 55 Rue de Rivoli
GENOA, ITALY, Paul Sciari & Co., Casella Postale 348

Stocks carried by Leading Jobbers in all distributing centers of United States and Canada

LAMINEX DOORS

"Will not Shrink, Swell or Warp"

A WOCO PRODUCT

TRADE-MARK

Products

LAMINEX, an improved BUILT-UP DOOR made with special formula waterproof cement.

WOCO FIR SASH.

Also manufacturers of Woco Solid Stile and Rail Doors with Laminex waterproof cemented panels, and Woco Garage Doors.

Old-growth Douglas Fir is used exclusively in our products.

Resources and Experience

THE WHEELER, OSGOOD COMPANY, established in 1889, are pioneers in the manufacture of Douglas Fir doors and fir sash. Our production of doors is the largest in the world. According to U. S. Department of Commerce figures, we produced nearly 10% of the American output in 1924.

We own a large stand of fine, old-growth Douglas Fir and operate our own logging camps, lumber mill and door factories.



Water Test—24 hours' soaking showed complete absence of warping in Laminex doors. All parts of the doors remained rigid and strong.



Heat Test—24 hours in a commercial dry kiln at 185° F., with humidity of 30%. Moisture extracted 1 lb. 2 oz. No shrinkage, warping or checking.



Strength Test—Laminex panels, in a 200,000-lb. Olsen testing machine, stood an average load of 912 lb. on a square-inch surface without rupturing.

Scientific Tests

Laminex doors, taken at random out of stock, were tested for effect of moisture and heat and for strength by Prof. Bror L. Grondal in the Forest Products Laboratory, University of Washington, Seattle, with the results shown above.

What Laminex Is

We offer in Laminex a moderate-priced door with all the advantages of a built-up or veneer door—and none of the disadvantages. Laminex will not shrink, swell or warp, because the stiles, rails and panels are built-up and the grain of adjoining sections so crossed that all expansion and contraction are equalized.

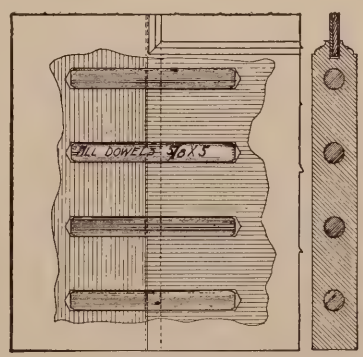
We have perfected a waterproof cement which has withstood scientific tests—has gone through floods and exposure where doors of all other types and woods failed.

Over a million Laminex doors are now in use, many of them in climates where excessive moisture or heat causes other veneered doors to separate, check, buckle and peel.

Construction of Laminex Doors

Several special features add to the remarkable strength and superiority of Laminex doors.

Dowels—Dowel construction as shown below. All Laminex and Woco doors have four wooden dowels in the bottom rail and two in the top rail. All dowels are ⅝ in. in diameter and 5 in. long. These give 50% more strength and 30% greater cementing surface than dowels ½ in. in diameter.

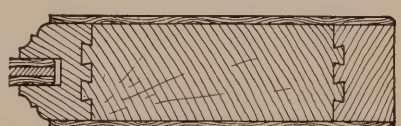


Dowel Construction

All Laminex and Woco doors have four ⅝-in. dowels in bottom rail

Wedge Joint—In building the stiles and rails, a strip is dovetailed and cemented the entire length with a tight-wedged joint (see diagram below). When the 200-lb. per square inch hydraulic pressure is exerted on each section and it is dried under this tremendous pressure, the construction of Laminex doors becomes virtually solid.

Grain—In addition to the rotary cut flat grain Douglas Fir, Laminex doors are also made with sliced vertical grain stiles and rails. Vertical grain is particularly desired for high class enamel work.



Cross Section of Sticking and Stile Showing Wedge Joint

Standard Specification for Laminex Doors

All doors, unless otherwise indicated, shall be Laminex Fir Doors manufactured by THE WHEELER, OSGOOD COMPANY, Tacoma, Washington.

Stiles and rails shall be built up. Edge strips dovetailed to center blocks. Face veneers shall be (flat or vertical grain) cemented to cores with Laminex Waterproof Cement.

Door panels to be rotary cut, Douglas Fir, three-ply, made up with Laminex Waterproof Cement.

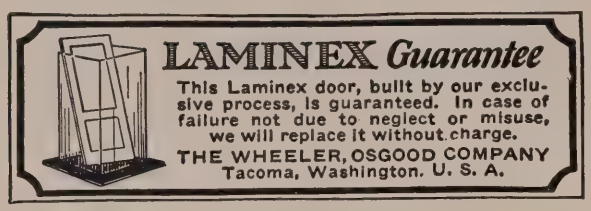
The doors, when delivered to the job, shall bear the Laminex guarantee label and trade-mark.

For further details and literature, write to: **THE WHEELER, OSGOOD COMPANY, Tacoma, Wash.**

LAMINEX DOORS (Continued)

Laminex Guarantee

The definite replacement guarantee shown below is affixed to every Laminex door. A similar guarantee will be found on No. 1 Woco Douglas Fir solid stile and rail doors with Laminex panels.



Strength and Durability of Old-Growth Douglas Fir



No. 1535

Bed and Cove; stiles and top rail 4 9/16 in.; bottom rail 9⅜ in.

U. S. Department of Agriculture tests show that:

Douglas Fir is equal in durability to Eastern White Pine.

Douglas Fir is over 10% higher in durability than Western White Pine.

Douglas Fir is over 88% higher in durability than Western Yellow Pine.

Douglas Fir is over 60% higher in durability than California Sugar Pine.

In comparison with commercial White Oak, the heartwood of these species shows the following comparison in decay resisting qualities:

White Oak 100%
Douglas Fir .....75 to 85% (average 80%)
Northern White Pine..70 to 90% (average 80%)
Western White Pine...65 to 80% (average 72½%)
Western Yellow Pine...35 to 50% (average 42½%)
California Sugar Pine..45 to 55% (average 50%)

"Belle Porte"—a New Laminex Sub-frame Door

This design has the individuality desired for high class use, particularly for hotels, apartment houses, offices, etc.

Made with all square joints, and sub-frame fully doweled. Stiles, rails and panels are Laminex construction. Vertical or flat-grain stiles and rails, flat-grain panel.



"Belle Porte"
Stiles and top rail 4 9/16 in.; bottom rail 9⅜ in.

Woco Fir Sash

The remarkable durability of Douglas Fir makes it the ideal wood for sash.

The North American Building, State Street, Chicago, Ill., built in 1911, has fir sash throughout. The owners say, "We have not had to renew any from the fact of the wood rotting. From present indications we feel that, with ordinary care, we can expect continued good service."

Woco Fir Sash is free from sapwood, eliminating decay and making it permanent. Available in all standard sizes.



Woco Fir Sash



No. 80
Bead and Cove sticking; stiles 4 9/16 in.; top rail 4 9/16 in.; muntin 4½ in.; bottom rail 9⅜ in.



No. 29
Bead and Cove sticking; stiles and top rail 4 9/16 in.; lock rail 4½ in.; bottom rail 9⅜ in



No. 21
Bead and Cove sticking; stiles and top rail 4 9/16 in.; bottom rail 9⅜ in.



No. 82
Bead and Cove sticking; stiles 4 9/16 in.; top rail 4 9/16 in.; lock rail 8 in.; bottom rail 9⅜ in.



No. 66
Bead and Cove sticking; stiles and top rail 4 9/16 in; lock rail 8 in.; muntin and cross rail 4½ in.; bottom rail 9⅜ in.

Note: All Doors made in 1⅜ and 1¾-in thickness

The Allen Windows and Ventilators

APPROVED BY ARCHITECTS

FULLY PROTECTED BY PATENTS

Made By

THE ALLEN WINDOW CO. OF AMERICA

WAVERLY, N. Y.

AGENTS WANTED EVERYWHERE

CONTRACTORS AND BUILDING SPECIALTY--FIRMS INVITED TO BECOME AGENTS



Fresh Air for All:

For homes, offices, hotels, hospitals, schools, plants and everywhere ventilation is needed. Better health, longer life.

The Allen Window gives an added value out of all proportion to the cost. The most important thing in life is health, and the greatest boon to health is pure air. Indoor life must be provided with fresh air or your physical and mental decay is only a matter of time. Pure air, the best medicine on earth, every minute of the day and night increases your pep and efficiency and repays the cost in a financial as well as a physical way many times over. Ventilating systems destroy the electrical vitality of the air, a window ventilator is needed with them.

Automatic Ventilation:

The panels can be set to close when the wind blows and open again when the air is still. You can regulate the panels to close easily with a light wind or to require a strong wind to close them. You can limit the opening of the panels or limit their closing to any degree desired. Never any direct draft.

You can set the panels stationary at any angle, set them on a level and wash them from the inside, and in that position you can see out when florentine glass is used. When panels are closed they make a storm window. In any position they are burglar proof. One small lever does all the operating. You can limit the ventilating space.

When made with florentine glass they are beautiful and combine in one device a window, an automatic ventilator, a stationary ventilator, a storm window, a shade, and a fly screen. It gives all the air and light with protection from storm, wind, dust, sun and view, making it ideal for bath rooms and bed rooms, and wherever privacy is desired. Plain glass is used when desired.

Construction:

Allen Windows and Ventilators are built to order on receipt of specifications. The Ventilators are designed to use with ordinary window sash and do not interfere in any way with the use of the regular window. The frame is made of non-rustable metal and the panels of any kind of glass desired cut six inches wide and overlap one-half when closed.

Made in Five Styles:

(1)—A Ventilator of three panels.
(2)—A Ventilator of five panels.
(3)—A Ventilator for the entire upper or lower sash.
(4)—A Ventilator for the complete opening, as illustration above shows.
(5)—A complete window having the ventilating panels, and a framed glass behind them that can be raised or lowered like the ordinary window, to limit the ventilating space.

When the Ventilators are used the regular sash is raised or lowered to limit the ventilating space, but the complete Allen Window is more compact. These are made to take the place of the regular lower or upper sash or both sash as desired.

Full Information on Request:

An interesting folder will be sent you.

For further details and literature, write to: **ALLEN WINDOW CO. OF AMERICA, Waverly N. Y.**

BESSLER DISAPPEARING STAIRWAYS

Manufactured by

THE BESSLER DISAPPEARING STAIRWAY CO., AKRON, O.

The Bessler makes it profitable to use the attic or other room above because it takes up no space whatever in the room below. When not in use, the Bessler glides smoothly and noiselessly upward and disappears with only a neat panel visible from below.

In making the attic conveniently available for clothes closet, bed room or other living room, the Bessler adds from $500 to $1000 to the value of any house because it takes up no space and does not disturb the arrangement of the room below. The cost of the Bessler is not more than one tenth of the value of the extra space it creates. It is cheaper even than the old fashioned space wasting box stairway.

The Bessler is substantially and carefully made of the best materials. It is so well counterpoised by two spring drums that a child can raise and lower it with ease.

It requires no extra care or attention, and it will last as long as the house.

The smallest home can not afford to be without a Bessler because of the needed space it makes available. On the other hand, there are many hundred-thousand-dollar homes that have one or two Besslers because of the convenience they afford.

Besslers are installed just as easily in houses under construction or in old houses. Any carpenter can install one in a few hours. Clearly drawn directions accompany each stairway.

Bessler Disappearing Stairways are tried and proved by 15 years' use. They are covered by twelve patents, with others pending.

A Guarantee, as shown below, covers every Bessler. You take no chance in installing one. There are thousands giving perfect satisfaction all over the country.



No. 50

The Modern Way of Reaching the Attic

For Residences
Summer Cottages, Garages
Stores and other Public Buildings

A Bessler-ized attic affords a Bed Room Clothes Closet, Sewing Room, Children's Play Room, Man's Office, Radio Room, Laboratory or Library

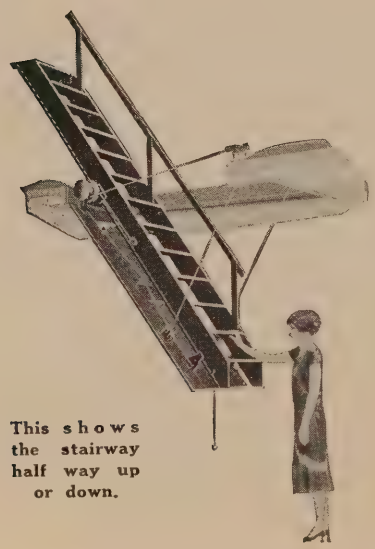
No. 50. This is the lowest priced disappearing stairway made. It has all the noteworthy Bessler features, but is of lighter materials and is six inches narrower than our standard size No. 97. Sizes from 7 ft. 7 in. (floor to floor) to 10 ft. 1 in. Rough opening in ceiling (all heights) 2 ft. 2 in. x 5 ft. 8 in.; finished opening between jambs 2 ft. x 5 ft. 6 in.

This is a well made, substantial, good looking stairway, fully covered by our regular guarantee, just the thing for small cottage or bungalow.

No. 97



No. 97 is our standard full size disappearing stairway. All metal parts are of stamped steel. Panel is hung on adjustable hinge that brings it flush with the ceiling, no matter how wide the floor joists. Panel is left white so it may be finished to match other wood work. Remainder of stairway is primed with medium dark stain. All heights from 7 ft. 7 in. (floor to floor) to 12 ft 7 in. Rough openings all 2 ft. 8 in. wide; finished 2 ft. 6 in. and from 6 ft. to 8 ft. long depending on size of stairway.



This shows the stairway half way up or down.

We also make an all-steel disappearing stairway for fireproof buildings. Prices furnished on request.



This shows how stairway disappears when not in use, only well-finished panel showing from below.

The Bessler Guarantee

You can have the use of the Bessler for one month, and if it does not prove satisfactory, return it to us at our expense. The Bessler Disappearing Stairway is warranted to last as long as the life of the building.

F. E. Bessler PRESIDENT

For further details and literature, write to: **THE BESSLER DISAPPEARING STAIRWAY CO., Akron, O.**

The PRESTO Disappearing Stairs

(Gives Access to Attic Without Sacrifice of Space on Lower Floor)

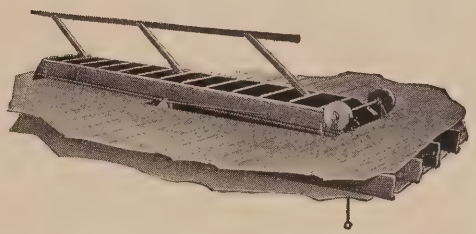
Manufactured By

FARLEY & LOETSCHER MFG. CO.

DUBUQUE, IOWA.

Products

Presto Disappearing Stairway and Qualitybilt Woodwork—Sash, Doors, Blinds, Mouldings, Frames. See Millwork Section, pages 192 and 193.



Cut shows stairs tucked away in the attic when not in use. Very little space is needed.

The Attic Stair Problem

Every builder knows the difficulty of providing for an attic stairway, particularly in the small home. It often means the sacrifice of room space or closet space that can ill be spared. In attempting to install a stationary stairs the room is often so reduced in size or cut up that it can only be used in a limited way and is a constant source of aggravation to the home owner. On the other hand, the storage space in the attic is too valuable to be wasted and should be made accessible in some way. A hole in the ceiling is dangerous and inconvenient and because of this is a poor makeshift.

The Solution

The "Presto" Disappearing Stairway solves the problem. It occupies no space on the lower floor and but very little space in the attic. It consists of a strongly built flight of stairs, with rigid hand rail, mounted on a solid panel that closes into a frame set in the ceiling. When the stairs are not in use they are entirely out of the way in the attic, no part of the equipment visible on the floor below except the panel in the ceiling. A slight pull on a short chain hanging from one end of the panel causes the panel to swing down toward the floor and the stairs are then slid down the panel, the action of both panel and stairs being controlled by powerful counterbalancing springs that prevent any sudden movement. When stairs are no longer required a gentle push sends them back into the attic; the panel closes and is tightly held in place by the springs.

The space thus made available both upstairs and down adds from $500 to $1,000 to the value of any home without considering the added convenience. The Presto is furnished complete ready to install and can be placed in an old home in a day's time and in a new home in a few hours. Simple instructions with each stair.



Stairway in lowered position ready for use



This Panel only is visible from floor below.



A thoroughly practical stairway that slides into the attic when not in use

DIMENSIONS

Projection into room from landing header when stair is down	CEILING HEIGHT	From top end of stairs to landing header when stair is up
7 ft. 2 in.	7 ft. 6 in.	4 ft. 11 in.
7 ft. 6 in.	8 ft.—8 ft. 6 in.—9 ft.	5 ft. 8 in.
8 ft. 1 in.	9 ft. 6 in.—10 ft. 0 in.	6 ft. 3 in.
8 ft. 10 in.	10 ft. 6 in.	6 ft. 11 in.
9 ft. 1 in.	11 ft. 0 in.	7 ft. 5 in.

Rough opening in ceiling		Finished opening between jambs
2-8 x 6-5	7-6 to 9-0 Ceiling	2-6 x 6- 3
2-8 x 7-1	9-1 to 10-0 Ceiling	2-6 x 6-11
2-8 x 7-5	10-1 to 10-6 Ceiling	2-6 x 7- 3
2-8 x 7-8	10-7 to 11-0 Ceiling	2-6 x 7- 6

Write Dept. H for Complete Description and Prices.

Presto REGISTERED TRADE MARK SLIDING STAIRS

For further details and literature, write to: **FARLEY & LOETSCHER MFG. CO., Dubuque, Iowa.**

Union Metal Columns

Made by

THE UNION METAL MANUFACTURING CO.

Canton, Ohio

Chicago Office 230 So. Clark St.

Products

UNION METAL COLUMNS AND PILASTERS.

UNION
TRADE-MARK
Reg. U. S. Pat. Off.

Stock and Special Designs

We offer the ten classical designs shown herewith. We also build metal columns and pilasters to conform to architects' details (except Design 240, which is furnished in stock sizes only).

Our portfolio of designs and installations shows many buildings where our columns have been used and a large number of attractive Colonial entrances. Write for Column Catalogue No. 50 entitled "Ancient Beauty for Modern Buildings," and Pergola Catalogue No. 51.

Advantages of Union Metal Columns

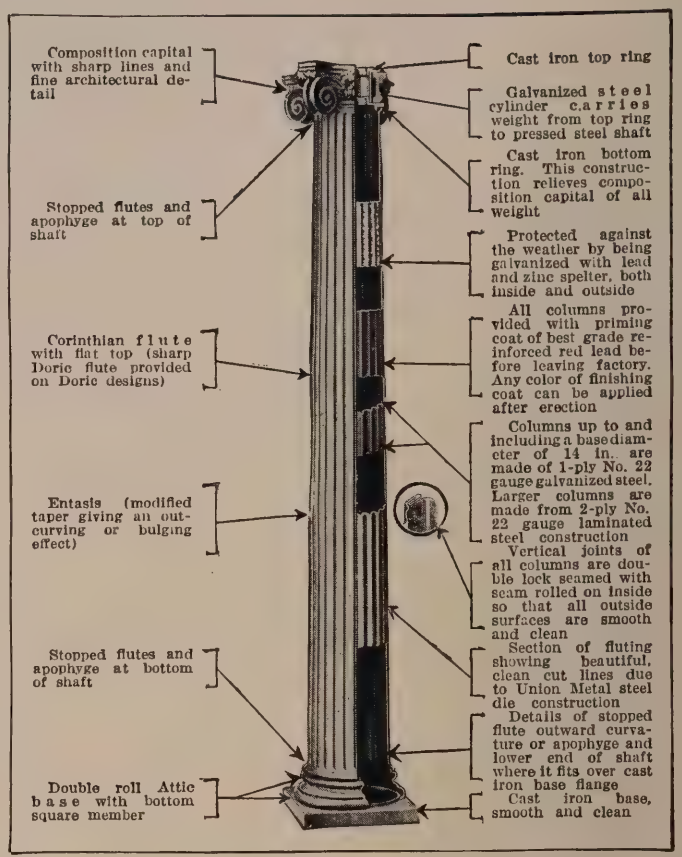
(1) Architecturally correct.
(2) Clean cut, highly ornamental and stately.
(3) Will not rot, check or open at joints.
(4) Fireproof and weatherproof.
(5) Have entasis and stopped flutes.
(6) Strongest columns manufactured.
(7) Not experimental, but used on thousands of representative buildings in the United States and abroad.
(8) Indestructible and will outlast the buildings; suitable for all climates and temperatures.
(9) Easily handled, transported and erected because of their light weight.

RESULT OF RECENT TEST ON UNION METAL COLUMNS

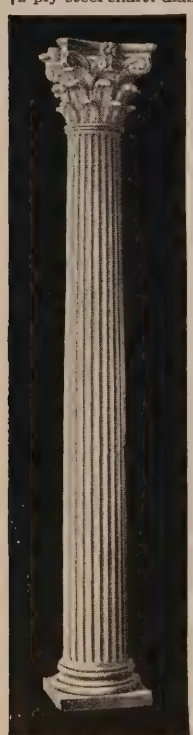
Test made by Robt. W. Hunt & Co.

	*Small column, lb.	†Large column, lb.
Bottom fillet (apophyge) bent at.....	5,840	16,240
Top fillet (apophyge) bent at.....	6,580	16,700
Column buckled near top at (maximum load)	27,220	29,960

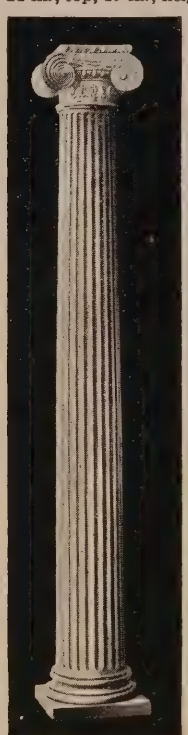
*1-ply steel shaft; diameter: base, 8 in.; top, 6½ in.; height, 6 ft.
†2-ply steel shaft: diameter: base, 21 in.; top, 19 in.; height, 10 ft.



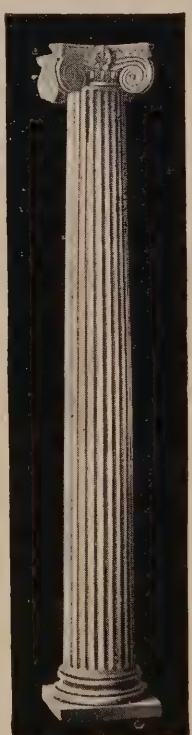
CONSTRUCTION DETAILS OF UNION METAL COLUMNS



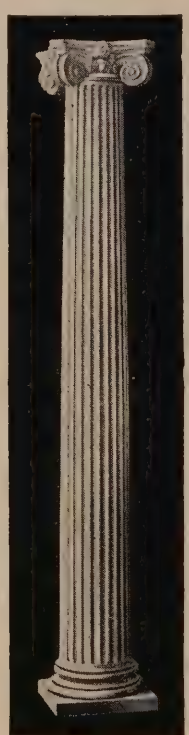
Design 212
Roman
Corinthian



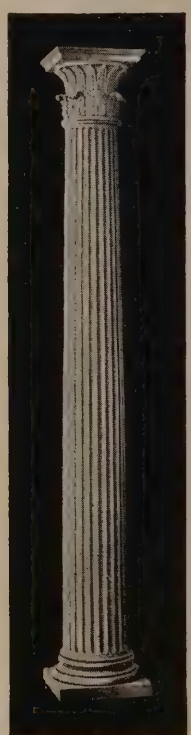
Design 230
Greek
Ionic



Design 237
Modern
Ionic



Design 222
Italian
Ionic
(Scamozzi)

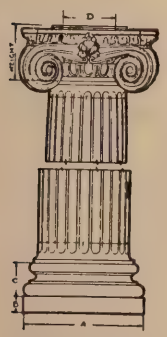


Design 213
Temple of the
Winds

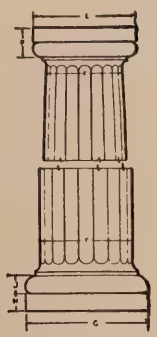
For further details and literature, write to: **THE UNION METAL MANUFACTURING CO., CANTON, O.**

Architects' Specification

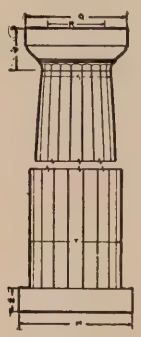
The fluted columns used shall be Union Metal Pressed Steel Columns with entasis and stopped flutes, manufactured by THE UNION METAL MANUFACTURING CO., Canton, Ohio. The design number, style and size of columns to be used are indicated on drawings. The manufacturer shall apply a priming coat of high grade metallastic paint to all columns before shipment from his plant.



Designs 212, 230, 237, 222, 213, 219, 224 and 200



Design 240

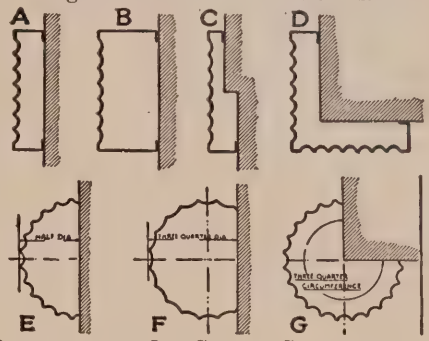


Design 700

Pilasters and Odd Shaped Columns

We can furnish square and corner metal pilasters and half-round and three-quarter round metal columns in all sizes to match stock or special designs of Union Metal Columns.

A—Quarter return pilaster
B—Half return pilaster
C—Unequal return pilaster
D—Quarter return corner pilaster
E—Half column
F—Three-quarter column.
G—Three-quarter corner column



UNION METAL PILASTERS AND ODD SHAPED COLUMNS

When ordering pilasters, specify whether face shall be tapered to match columns or whether face shall be straight from top to bottom. Unless otherwise ordered, bottom and top faces of pilasters will be furnished same as bottom and top diameters of columns, in which case pilaster bases and caps will match those of columns in height. All Union Metal pilasters are fluted on front face to match columns but are not fluted on return faces unless specially ordered. Pilasters are furnished with straight side face or straight tapered face and are not provided with entasis.

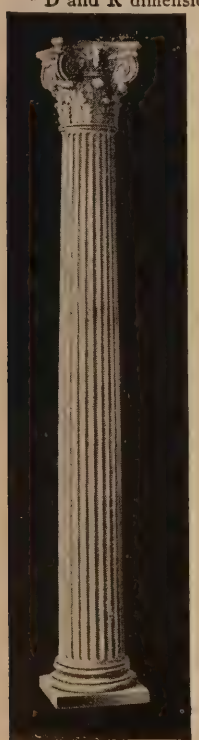
DIMENSION CHART OF UNION METAL COLUMNS

DIMENSIONS OF UNION METAL COLUMNS

Bot. diam. shaft, in.	A in.	B in.	C in.	*D in.	E in.	F in.	Height of capital, ft. 212	230	237	222	213	219	224	200	G in.	H in.	J in.	K in.	L in.	M in.	N in.	P in.	Q in.	*R in.	S in.	T in.
8	10 5/8	1 5/16	3	5 1/8	8	6 1/2	9 7/8	6 1/8	4 1/8	4 1/8	8 7/8	11 1/8	4 1/8	4 15/16	11	1 9/16	1 1/2	2 1/2	8 5/8							
10	13 15/16	1 11/16	3 3/8	6 1/4	9 3/4	8	13 1/16	9 1/16	6 7/16	5 5/16	12 13/16	13 1/16	6 1/16	5 15/16	13 1/4	1 15/16	1 7/8	3 5/16	11	12 1/4	2 1/2	4 5/8	10 7/8	5 1/4	7 1/2	10
12	16	1 15/16	4 5/16	7 7/8	12	10	15 1/8	11 1/8	6 7/8	5 5/8	15 5/8	15 3/8	7 5/8	7 1/2	16	2 5/16	2 1/4	3 13/16	13 1/4	14 3/8	3	5 5/16	13	6 1/2	9	12
14	18 5/8	2 5/16	4 3/4	9 3/8	14	12	16 3/4	13 1/4	7 3/4	6 3/4	16 1/4	19 1/4	8 3/4	8 5/16	18 5/8	2 3/4	2 3/4	4 9/16	16	16 5/8	3 3/8	6 1/2	15 1/2	7 1/4	11	14
16	20 3/4	3	4 1/8	9 3/8	15 3/4	12	16 3/4	13 1/4	7 3/4	6 3/4	16 1/4	19 1/4	8 3/4	8 5/16	....	....	....	....	....	18 7/8	3 7/8	7 1/16	16 3/4	7 7/8	12	16
16	20 3/4	3	4 1/8	10	15 3/4	14	18 1/2	15 3/4	10	8	21 1/4	22 1/2	11 3/4	9 3/4	....	....	....	....	....	....	....	....	....	....	....	....
18	23	3 1/4	4 3/4	10	17 3/8	14	18 1/2	15 3/4	10	8	21 1/4	22 1/2	11 3/4	9 3/4	....	....	....	....	....	20 1/8	4 1/4	8 1/16	19 1/4	8 3/4	14	18
20	26	3 3/8	4 11/16	12 1/2	19 1/2	15 3/4	24 15/16	17 7/16	11 3/16	8 15/16	.....	24 3/16	11 13/16	11 1/4	....	....	....	....	....	23 3/8	4 3/4	8 9/16	20 1/2	9 1/4	15	20
20	26	3 3/8	4 11/16	14	19 1/2	17 3/8	26 11/16	17 7/16	12 3/16	9 15/16	23 7/16	27 7/16	13 7/16	13 1/16	....	....	....	....	....	....	....	....	....	....	....	....
22	28 3/4	3 3/4	5 7/8	14	22	17 3/8	26 11/16	17 7/16	12 3/16	9 15/16	23 7/16	27 7/16	13 7/16	13 1/16	....	....	....	....	....	25 7/16	5	9 1/4	24	9 3/4	17	22
24	32	4	6 3/4	15 1/2	23 1/2	19 1/2	29 11/16	20 11/16	12 7/16	10 15/16	26 3/16	29 11/16	15 3/16	14 11/16	....	....	....	....	....	27 1/2	5 1/2	10 5/16	24 3/8	10	18	24
26	34 1/2	4 5/8	7 7/16	15 1/2	25	19 1/2	29 11/16	20 11/16	12 7/16	10 15/16	26 3/16	29 11/16	15 3/16	14 11/16	....	....	....	....	....	30	6	12	28 5/8	13 1/2	20	26
26	34 1/2	4 5/8	7 7/16	17	25	22	32 9/16	21 13/16	12 9/16	12 1/16	.....	32 9/16	16 13/16	16 5/16	....	....	....	....	....	....	....	....	....	....	....	....
28	37	5 1/8	8 1/16	17	26 7/8	22	32 9/16	21 13/16	12 9/16	12 1/16	.....	32 9/16	16 13/16	16 5/16	....	....	....	....	....	32	6 3/8	13 1/4	31 3/4	15	22	28
30	39	5 1/2	9 7/16	18 3/4	29 1/4	23 1/2	35 7/16	23 7/16	12 11/16	13 3/16	.....	35 7/16	17 15/16	18 5/16	....	....	....	....	....	34 1/2	6 7/8	14 1/2	34 3/4	16	24	30
32	41 1/2	6	10 7/8	20 1/4	31 7/8	25	39 11/16	24 15/16	13 3/16	14 3/16	.....	36 15/16	18 7/16	19 7/16	....	....	....	....	....	36 3/4	7 3/8	14 1/2	34 3/4	16	24	32
34	43	6 1/4	10 1/4	22	34	26 7/8	42	26	16	15	.....	40	.....	20 3/4	....	....	....	....	....	39	7 3/4	16 1/2	43	18	28	34
36	45 1/2	6 1/2	11 1/4	23 1/4	36	29 1/4	42 1/8	28 1/8	18 1/8	16 1/8	.....	42 1/8	.....	19 3/8	....	....	....	....	....	41 1/2	8 1/4	16 1/2	43	18	28	36
42	56	7	14	27	42	34	.....	.....	.....	.....	19 1/4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

All stock designs (except Design 240) are made in all sizes from 8 to 42-in. diam., and from 5 to 35 ft. high. Design 240 is made in 8 to 14-in. diam. only. Columns with diameter greater than 42 in. and higher than 35 ft. are specially constructed.

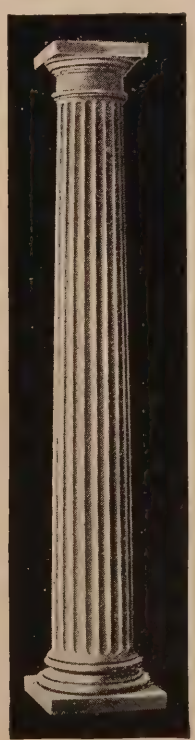
* D and R dimensions represent opening through capital.



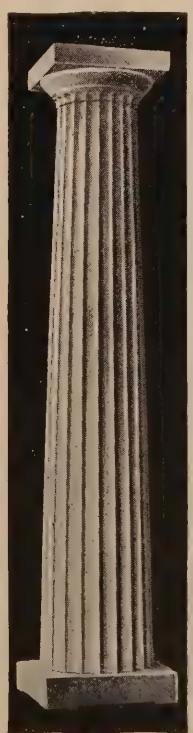
Design 219 Italian Composite



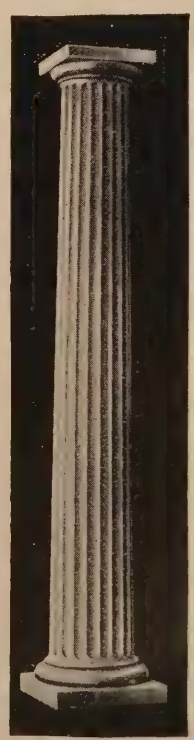
Design 224 Roman Doric



Design 200 Plain Doric



Design 700 Greek Doric



Design 240 All-steel Doric

For further details and literature, write to: **THE UNION METAL MANUFACTURING CO., CANTON, O.**

MAJESTIC STEEL KITCHENS

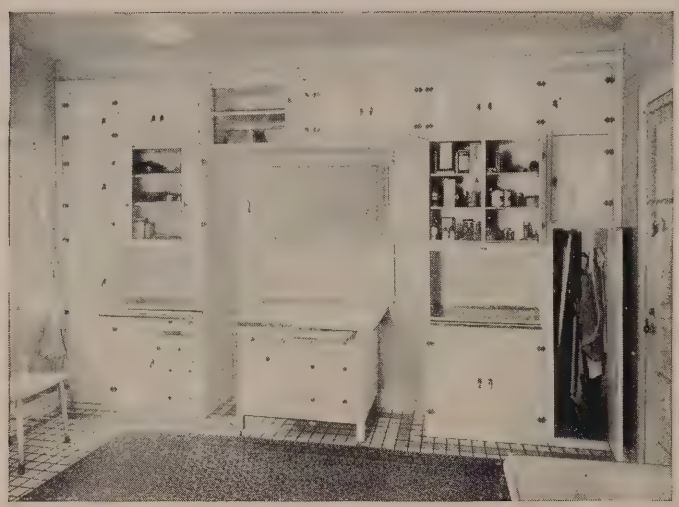
Manufactured by

MAJESTIC STEEL CABINET CO.

4051 North Tripp Ave., Chicago

SELECT YOUR OWN UNITS — MAKE YOUR OWN COMBINATIONS

An Attractive Combination





No. 42 Kitchen Cabinet
Built also with closed sides

Takes No More Floor Space Than a Wood Cabinet, Yet it Provides Almost Twice as Much Useful Shelf and Drawer Space.

Before You Plan To Install a Pantry

See the advantages of a Modern Majestic Kitchen

Whether you build for yourself, or to rent, or sell, the Modern Majestic Kitchen will prove a prime asset. Women prefer a modern kitchen over the old style pantry regardless of cost; yet, Majestic Steel equipment usually costs no more installed than the construction of a pantry, and it saves space.

The Majestic line of kitchen units may be assembled to fit any requirements and fill any part or every inch of wall space. Adaptable also for butler's pantry.

General Specifications:

Construction: Extra heavy patent leveled furniture steel, electrically welded for permanence,—withstands wear and saves repairs.

Hinges and Latches: Steel coppered and heavily nickeled, and brass heavily nickeled. Substantial, neat design.

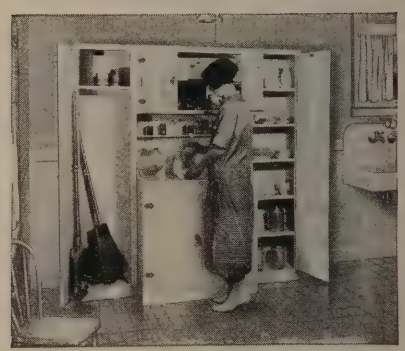
Doors: One half inch thick, stay rigid and true. Never warp or expand like wood. Free from all screws and projections except inside latch. Wide flanges protect insides from dust. Close snugly and latch automatically and independently of each other.

Finish: Four coats of oven baked enamel, with rust-proof bond coat as a base, in sparkling white or pearl gray, standard. Mahogany, walnut, or other colors when specified.

Measurements: Depth 18". Height and width made up from units to fit requirements and wall space. Our service engineers will lay out your plans without charge and quote prices on equipment.

Installation: Majestic Steel Kitchens may be built in or set along the wall. Shipped complete ready to set up. No joining or trimming required.

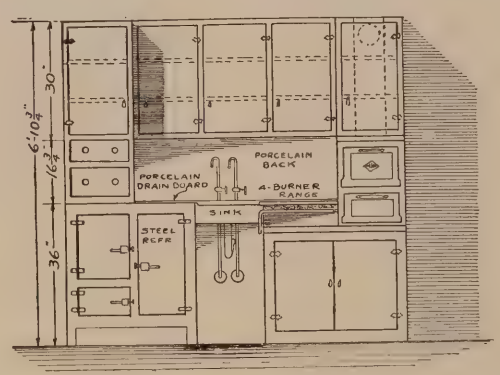
Get diagrams of units and suggestions for arrangement, or send floor layout to the factory for suggestions of units, prices, etc.



No. 66 Bungalow Set

A Deep, Roomy Cabinet with Lots of Space. Easily kept Clean.. More Serviceable than a Pantry.

For Medicine Cabinets, See Page 349



A COMPLETE KITCHENETTE

For Apartments, Kitchenettes, Small Homes

Pantry, Stove, Sink and Refrigerator, **all in one**

THE MAJESTIC No. 3000 KITCHENETTE

A pantry with 34 square feet of useful shelf space in the cabinet. More space than most old style pantries.

Cupboard for pots and pans 19 in. deep.

Cutlery drawer 17 in. wide, 18½ in. long.

A four-burner, high oven stove with broiler.

A special sink with hot and cold water faucets; a 15 in. procelain drain board, all-over porcelain back.

Spacious steel refrigerator for outside icing; 1½ in. solid cork board insulated walls.

Garbage disposal and parcel service.

This comprehensive equipment on a floor space only 7 ft. 2 in. x 19 in. and a wall space 6 ft. 10¾ in. high. Can you imagine anything more compact, desirable and efficient? Yet its cost installed is much lower than the cost of building a pantry and providing space-taking equipment in the kitchen. Save time, steps, work;—and money at the outset.

The Majestic No. 3000 Kitchenette is delivered ready to install—no joining or trimming—simply connect the pipes. Built of sturdy furniture steel electrically welded. Four coats of substantial oven baked enamel in sparkling white or gray. Heavily nickeled knobs and hinges. Double-thick doors that stay rigid and true. Get bulletin and prices.

See Your Building Material Dealer or Write to: **MAJESTIC STEEL CABINET CO.** 4051 N. Tripp Ave. CHICAGO, ILL.

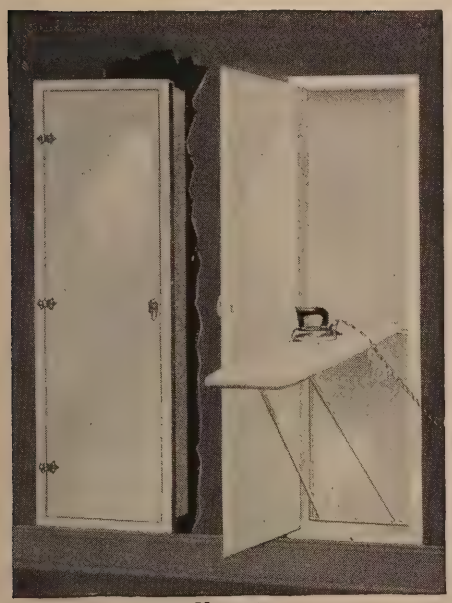
Majestic Steel Ironing Board Cabinets

Manufactured by

MAJESTIC STEEL CABINET CO.

4051 North Tripp Ave., Chicago

Fits your requirements in any type of wall that will afford a recess 2½" deep from the finished plaster line. A necessary built-in feature.



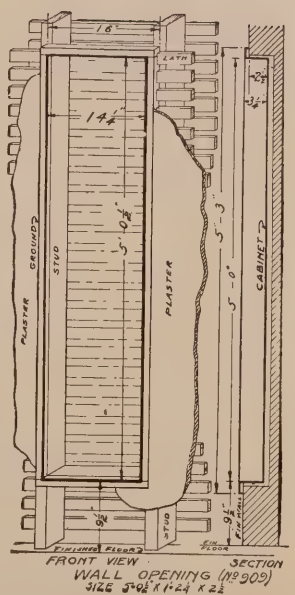
No. 909

"Use Steel for Permanence"

The MAJESTIC Ironing Board costs the least of any in place and ready for use. It comes complete, with baked enamel finish, fully assembled, hardware attached. Screws and washers for fastening into position are included. No trimming or fitting is required —no extras of any kind. Better than wood —costs less installed. No warped or swelled doors to require refitting.

Works so lightly that a child can fold it. The board remains rigid. Strong enough to support a weight of 150 pounds 3 feet from the cabinet. Can be used in 2" tile walls, or with studs turned flat in wall.

The unusually fine steel craftsmanship—the beautiful finish and the highly nickeled hardware appeal strongly to every woman. Harmonizes with other modern kitchen conveniences.



Important: Leave the built-in ironing board (also medicine cabinets and all cabinet work for the kitchen) out of the millwork specification. Majestic will give you superior equipment for the same or less money. You known that attractive bathrooms and kitchens are important factors in quick sale or rental. Today, everybody demands practical and attractive built-in features.

Installation: Prepare wall opening 5'-0½" high between studs or 14¼" wide in tile or pyrobar wall, 9½" above finished floor (5'-5½" high, 14¼" wide, 4½" deep, if larger cabinet No. 910 is used). Set cabinet in recess, tight against plaster. Insert screws snugly. Cabinet is then ready for use. No trim is required.

No. 909 Specifications: Steel Cabinet, electrically welded, of heavy patent leveled furniture steel, fitted with wood ironing board. Finish—four coats of oven baked enamel in lustrous white or light pearl gray. Hardware—of extra heavy steel, copper-plated, then nickel-plated and polished. Extreme outside dimensions 63"x17"x3½"; inside dimensions 60"x14¼"x3½". Wall recess required for 60"x14"x2½", located 9½" from finished floor. Board extends 50" from cabinet and is 36" from floor when opened for use.

No. 910 Specifications: Same as No. 909 except that cabinet is 5" higher and 1¾" deeper to provide for placing a broom on back of door, and shelf for iron at top of cabinet. Extreme outside dimensions 68"x17"x5"; inside dimensions 65"x14"x5". Wall recess required 65½"x14¼"x4¼", located 9½" above finished floor.

For Medicine Cabinets, See Page 349.

THE MAJESTIC TELEPHONE NICHE



Gets the telephone out of the way. Makes narrow hallways useful. Saves furniture for hotels. Finished in hand rubbed walnut or mahogany. Priced too low to be without.

Specifications

Steel cabinet, electrically welded, of patent leveled furniture steel. Has 1½" flange around body, ¾" deep. Over all dimensions 28" high x 13" wide x 4½" deep. Requires wall opening 25¼"x10¼"x4½" deep. Located 20" to 30" from floor. Finish—Standard, walnut or mahogany, hand rubbed. Colors, or with rust proof bond coat only, when specified. Come packed two in a carton. Lower compartment fitted with steel door. Shelf for telephone has depth of 7" and space below for bell box. Comes complete ready for use—including screws and washers for holding in place. Requires no trim or fitting.

Installation: Insert in recess, push tight against plaster, put in four screws, and draw them just snug.

UNION MADE
MAJESTIC
Built-in
Steel Kitchens
Kitchen Cabinets
Linen Cabinets
Wall Cabinets
Steel Pantries
Medicine Cabinets
Broom Cabinets
Ironing Board Cabinets
Vacuum Cleaner Cabinets
Write for Specifications

See Your Building Material Dealer or Write to: **MAJESTIC STEEL CABINET CO.** 4051 N. Tripp Ave. CHICAGO

Domestic Science Built-In Kitchen Units

Manufactured by

DOMESTIC SCIENCE DIVISION

McDougall Company, Frankfort, Indiana

VIEWS OF DOMESTIC SCIENCE BUILT-IN KITCHENS



Plate No. 13

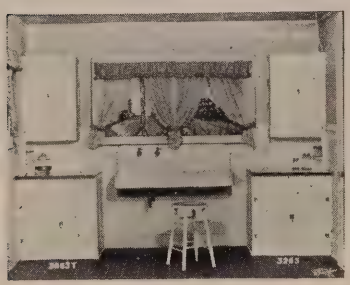


Plate No. 58A

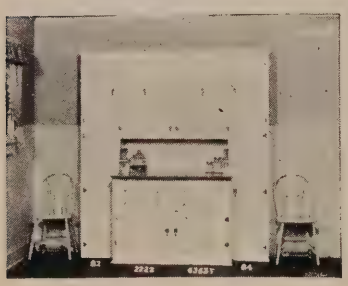


Plate No. 53A



Plate No. 58B



Plate No. 29

Make Beautiful, Modern Kitchens

The easiest and most efficient way to provide a beautiful and modern kitchen in any home is to equip that room with Domestic Science Built-in Kitchen Units.

Three years of painstaking research and practical experiment with builders are back of Domestic Science Design. More than a quarter century of experience in manufacturing the world's finest Kitchen Cabinets are back of Domestic Science manufacture.

More than a hundred combinations of standardized Domestic Science Built-in Kitchen Units provide a variety giving full choice to the most exacting builder. Tested and proved kitchen conveniences are embodied in every Domestic Science Unit.

You will find Domestic Science Units much more economical than mill work which even approaches them in design and finish. Selected hardwoods are used throughout. The manufacturing practices are the best known in woodworking. All finishes are highest grade Sherwin-Williams enamels. The design includes all the best practices of modern Kitchen Cabinet construction—flour bin, porceliron work table tops, specially constructed bread and cake drawer, a velvet lined cutlery drawer, cook book holders, extract rack, change tray—even an eight-piece glass set for spices, coffee, etc.

Domestic Science Built-In Kitchen Units may be selected to meet the requirements of any kitchen, from a simple buffet section to a complete kitchen equipment including refrigerator, utility closets of various designs combining shelf and drawer space, and china closets.

Domestic Science Built-In Kitchen Units eliminate waste space, waste materials, excessive working time, and doubtful compromises as to kitchen arrangement. They determine *beforehand* an exact kitchen plan, being readily adapted to all requirements as to shape of kitchen, and window and door locations.

We maintain a Service Department for Architects, Builders and Home Owners. Domestic Science Built-In Kitchen Units will increase the demand for homes built for sale or rent—will insure satisfaction to the owner building for himself.

Complete information will be sent to contractors or builders upon request.

The following page shows the details of two combinations of Domestic Science Built-In Kitchen Units, illustrating the variety and completeness of kitchen equipment obtainable.

VIEWS OF DOMESTIC SCIENCE BUILT-IN KITCHENS

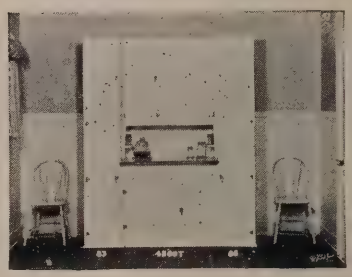


Plate No. 51

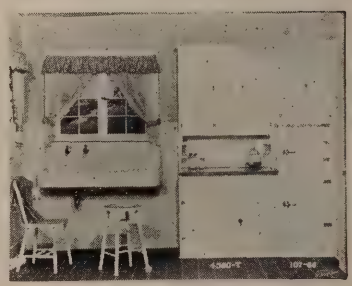


Plate No. 44

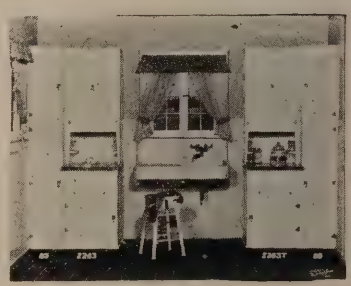


Plate No. 60A



Plate No. 61A

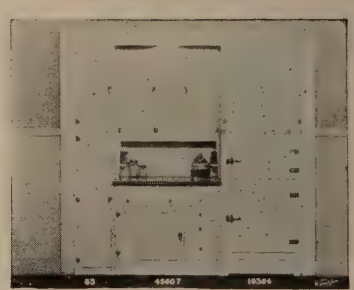


Plate No. 24

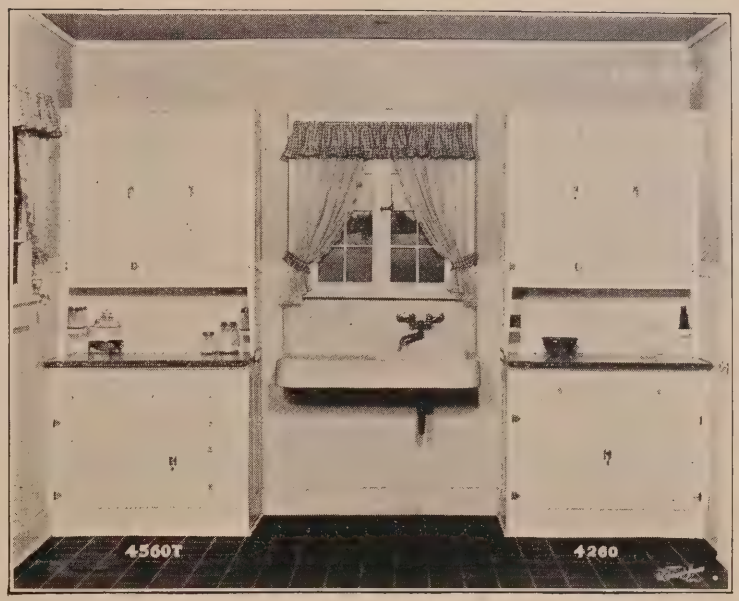
For further details and literature, write to: **DOMESTIC SCIENCE DIVISION, McDougall Co., Frankfort, Ind.**

Combination No. 61

AN ideal kitchen arrangement because it gives continuous, unobstructed work table space with sink conveniently located between the units.

The Master Unit on the left (4560T) has three shelves and flour bin; white Porceliron work table top, pot compartment, and five drawers, including one for bread and one velvet lined for cutlery, and eight-piece glass set. Inside, on upper doors, is cook book and holder, extract rack, change tray, etc.

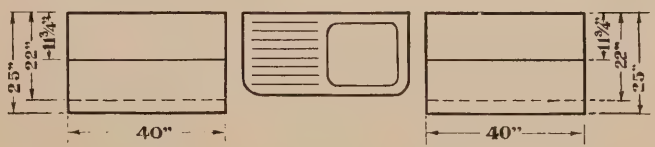
No. 4260 Master Unit on right has three shelves, with Porceliron work table top, two large drawers, and two large compartments for pots.



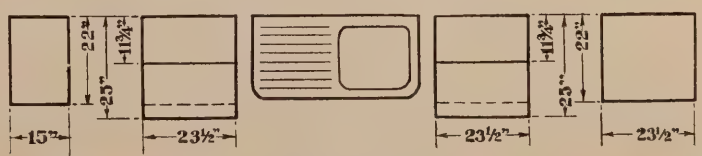
Floorplan Using 3561T and 3261



Floorplan of Illustration Above



Floorplan of Illustration Below



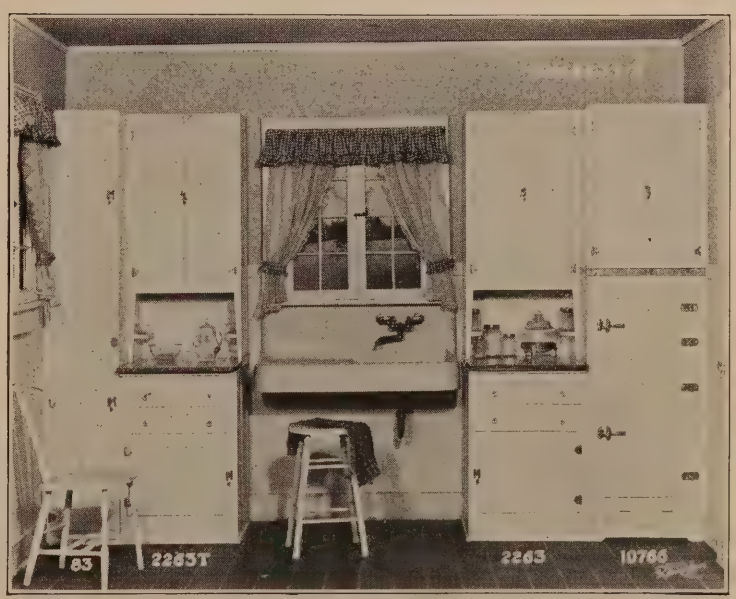
Combination No. 35B

BESIDES the advantage of a continuous work space—table top, sink, and table top—the utility closet and refrigerator units are located at positions of greatest helpfulness.

The Utility Closet (83) has two shelves and broom space sufficient for any suction sweeper.

The Master Units (2263) each have three shelves, white Porceliron work table top, two deep drawers and pot cupboard. No. 2263T has eight-piece glass set and 24-pound flour bin with sifter attached. Inside, on upper doors, is cook book and holder, extract rack, change tray, etc.

The Refrigerator (107-66) has 60-pound capacity, two wire shelves in food compartment; three shelves in cupboard above.



Kitchen Maid Standard Unit System

WASMUTH-ENDICOTT COMPANY
ANDREWS, INDIANA

Products:

"Kitchen Maid" Standard Units—including Kitchen Cabinets, Dish Closets, Linen Cupboards, Broom Closets, In-a-wall Ironing Boards, Refrigerators, Divider Cupboards, Pulmanooks, and In-a-wall telephone seats.

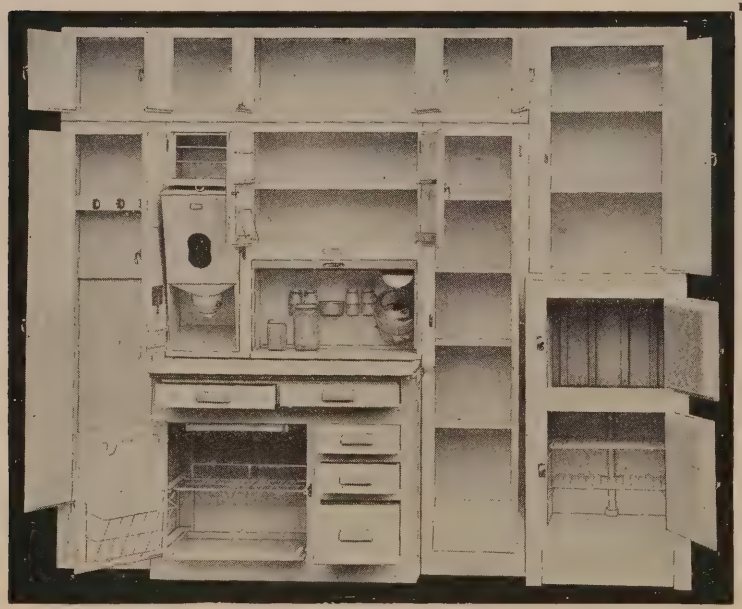
Kitchen Maid Standard Unit System:

The "Unit Idea" organizes the kitchen into a complete system of compact storage and working units—each complete in itself yet built so that it can be used together with one or more other units, exactly according to the kitchen plans of the user.

"Kitchen Maid" Standard Units are built to conserve space, save labor, organize kitchen work, and make the kitchen generally more efficient, clean and beautiful. They can be installed in kitchens already built or can be built into a kitchen specially designed to receive them. Units are standardized in construction—made for economy as well as quality. They cost no more than old-fashioned cupboards.

"Kitchen Maid" Units represent the highest development of cabinet-craftsmanship. They are built from carefully kiln dried woods and are never shipped unless protected from humidity changes by at least one coat of white paint, applied immediately after they are finished.

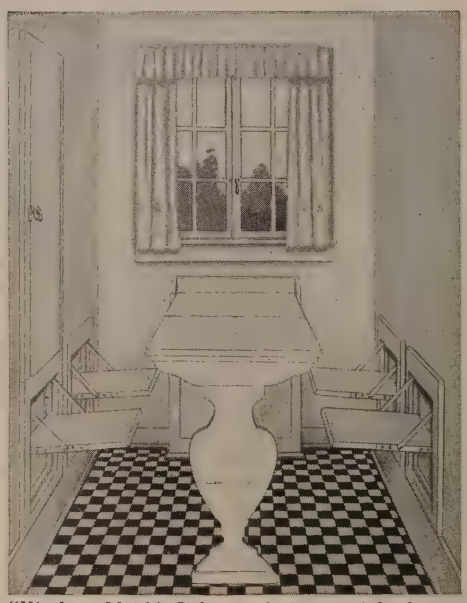
"Kitchen Maid" smooth door construction eliminates common panel doors. The doors are guaranteed not to warp or get out of line. All interior corners of "Kitchen Maid" Units are rounded, leaving no space for dirt to collect. The smooth door construction and rounded inside corners of "Kitchen Maid" Units make possible an entirely new degree of cleanliness.



No. 210X Combination with No. 58 Refrigerator and No. 59S Package Receiver.

Units are finished in choice of white enamel, gray enamel, or one coat of flat undercoat. They are equipped with hinges, latches and other hardware that are rust proof, substantial and practical.

For complete information about "Kitchen Maid" Standard Units, send for the complete catalogue.



"Kitchen Maid" Pulmanook in special alcove. The Pulmanook with two chairs instead of four may be installed in a corner of the room.

The Complete Combination

Here are all the necessary units of kitchen equipment on one wall space, in a complete Kitchen Maid combination. Kitchen cabinet, broom closet, dish cupboard, storage compartment, refrigerator, and a top cupboard which can be used as a package receiver. Many a full-sized pantry contains less actual usable space than this. The famous "Kitchen Maid" features of construction—rounded inside corners, and smooth surface, no panel doors are carried out in all units. Included in this combination are Kitchen Maid Unit No. 210 Kitchen Cabinet; unit No. 70 Dish Cupboard; unit No. 11 Broom Closet; unit No. 0212 Top Cupboard; unit No. 58 Refrigerator and unit No. 59S Cupboard over refrigerator.

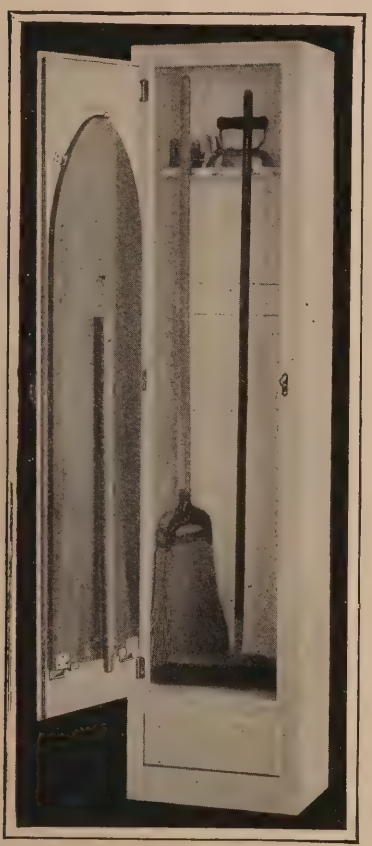
"Kitchen Maid" Kitchen Cabinets

As a part of the unit system, or by itself, the "Kitchen Maid" kitchen cabinet brings to any kitchen a convenience and cleanliness which is practically indispensable.

Aside from its many time-saving arrangements, the "Kitchen Maid" has the rounded inside corners and the no-panel construction of doors and drawers which eliminates 78 old-fashioned corners. For convenience, it has a metal lined pastry compartment, tilting flour bin, extension porcelain work top, automatic sugar jar, efficiency charts, condiment jars, skillet compartment, bread drawer with self-acting cover, and many other advantages.

The Kitchen Maid cabinet is widely known for the sturdiness of its construction, with every joint dovetailed or tennoned, and well seasoned material used throughout.

Kitchen Maid Standard Unit System (Continued)



No. 12 Broom Closet and Ironing Board Combined.

"Kitchen Maid" Refrigerators

"Kitchen Maid" Refrigerators are built to conform to the most exacting requirements of mechanical refrigerating engineers. The materials, finish, workmanship—and most important of all, the insulation—are of the very highest type.

Solidly built carrying out the smooth door style and excellent enamel finish of the remainder of the "Kitchen Maid" line these refrigerators are handsome and substantial. The interiors are lined with galvanized iron white enameled in the food compartments, insuring years of rust-resisting service.

Good insulation, which is the fundamental requisite of good refrigeration, is insured by the use of two dead air spaces and one inch of pressed cork. This insulation is generally accepted as the standard for good refrigerators.

Broom Closet and Ironing Board Combined

Here is a unit which fits in any kitchen or cabinet combination—no need for a special opening in the wall, it sets anywhere. It holds an average vacuum cleaner, brooms, mops, and has a shelf for cans of polish or the electric iron, and besides, the ironing board, which is easily suspended flat against the door when not in use.



No. 356 Combination using No. 56 Refrigerator and No. 300 Top Cupboard.

Dish Closet

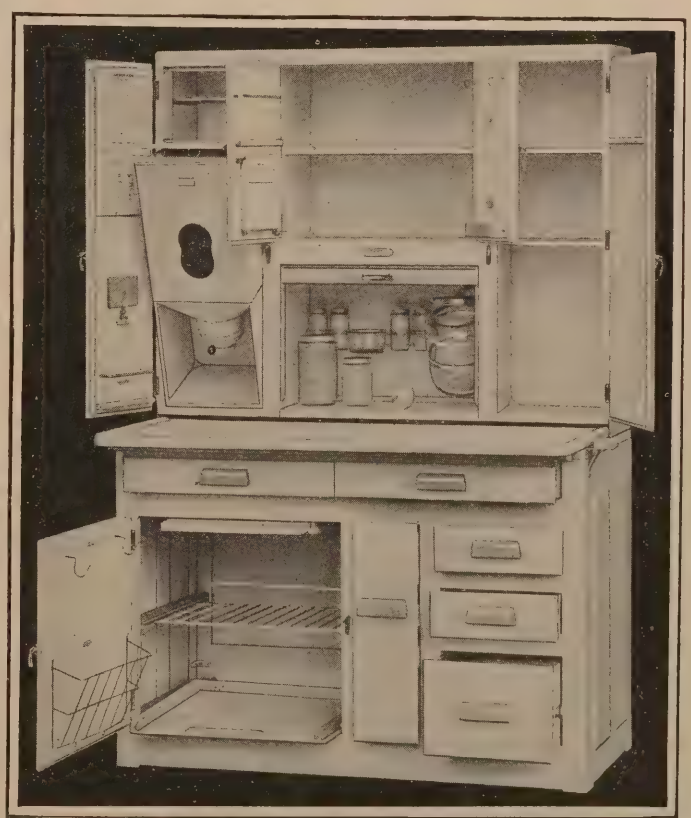
The Vertical Dish Closet No. 70 contains five roomy shelves. This unit is used in combination with any of the cabinets and top cupboards and it also may be used alone in a corner of the kitchen or on an open wall space, providing valuable storage room for dishes, utensils, canned goods, etc. This unit may also be used as a linen and utility cupboard for the bathroom.

"Kitchen Maid" Pulmanook

The Pulmanook converts the kitchen into both kitchen and breakfast room. In a few seconds both table and chairs can be folded out of the way after use, leaving an open space for ironing or other purposes during the rest of the day.

The table unfolds from a compact case. When closed it takes up practically no room. When open, it is a staunch and rigid table, large enough for four people. The chairs unfold from the wall and take up no space when folded. They make a substantial seat for persons of any weight.

The Pulmanook is attractive, comfortable and solidly built. It has the added advantage of being able to be cleaned easily and quickly.



"Kitchen Maid" Kitchen Cabinets.

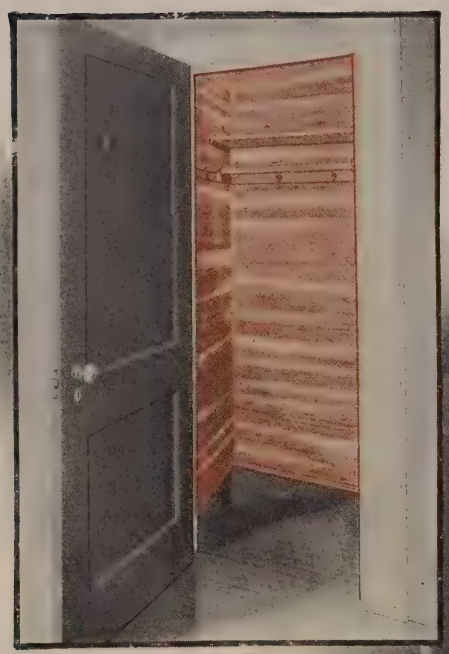
Arro-Matic Red Cedar Clothes Closet Lining

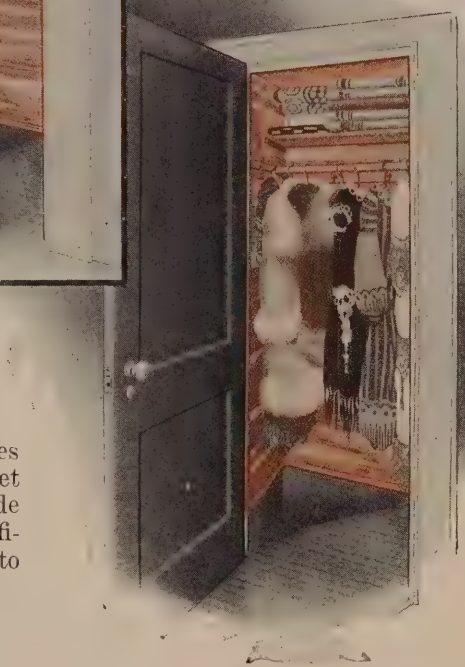
Made by

CHICKAMAUGA CEDAR COMPANY

Stevenson, Alabama

ARRO-MATIC
THE MOTH-PREVENTING CEDAR CLOSET-LINING





Cedar Lining Turns an Unattractive Closet into a Handsome Compartment.

Product:

This company manufactures *ARRO-MATIC,* a clothes closet lining made from the finest grade of Tennessee Red Cedar, scientifically kiln-dried and milled into conveniently sized strips.

Advantages:

Closets lined with *ARRO-MATIC* are moth-deterring vaults with many times the capacity of the largest cedar chests.

Garments can be kept in order on hangers, where they are safe from moths, unwrinkled and instantly available, without unpacking and repacking, which is always necessary when storing garments in a cedar chest.

ARRO-MATIC Closets are clean, dry, dust-proof and fragrant with the fresh, pleasing odor of Aromatic Tennessee Red Cedar.



Makes a Tight Fit:

ARRO-MATIC Red Cedar Clothes Closet Lining is side and end-matched, like hardwood flooring, providing a tight, dust-proof fit.

Easily Applied:

The tongued and grooved strips are easily and quickly applied to closet ceilings, walls and floors. Insides of doors, too, if desired. Nail it directly to the studding in new construction. Or over the plaster in old closets, working from the bottom up. A hammer, saw and 3 penny wire finishing nails are the only tools required.



Costs No More Than Lath and Plaster:

ARRO-MATIC Red Cedar Clothes Closet Lining costs no more than lath and plaster. It makes a much better and handsomer appearance, with the added advantage of making every closet proof against damage to clothing by moths. Houses finished with *ARRO-MATIC* are easier to rent or sell. It will add value to all property.

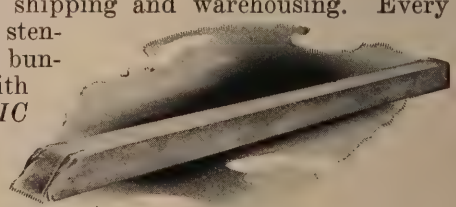
Made in Two Widths:

ARRO-MATIC Closet Lining is made 3/8-inch thick, tongued and grooved, surfaced two sides and end matched. Lengths are 1 to 8 feet and widths 2½ and 3¼ inch.

Cedar quarter-round, $\frac{13}{16}$ inch cedar flooring and dressed cedar shelving boards are furnished as finishing accessories.

In Sealed Packages:

ARRO-MATIC Red Cedar Clothes Closet Lining is securely wrapped in heavy Kraft paper and sealed to protect it in shipping and warehousing. Every piece of lining is stenciled and every bundle marked with the *ARRO-MATIC* trade mark shown at top of page.



For further details and literature, write to: **CHICKAMAUGA CEDAR CO., STEVENSON, ALABAMA**

Maltese Cross Air Dried Cedar

Produced by

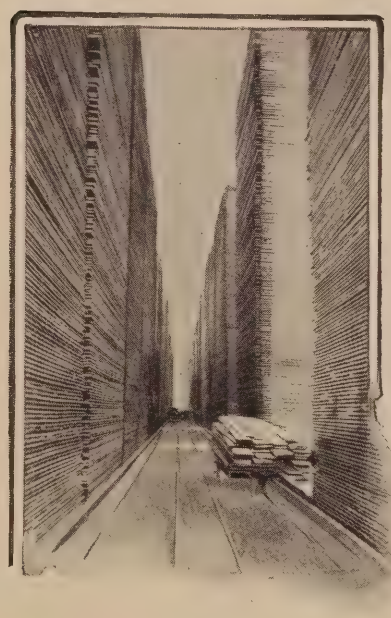
THE SEATTLE CEDAR LUMBER MFG. CO.

SEATTLE, WASHINGTON

'TWON'T KRACK! *'TWON'T KRINKLE!* *'TWON'T KRAWL!*

USES FOR
MALTESE CROSS AIR DRIED CEDAR

BATTENS
BEE HIVES
BEVEL SIDING
BILLBOARD MOULDING
BLINDS
BOATS
BUNGALOW SIDING
CABINET WORK
CANOES
CEILINGS
CLAPBOARDS
CLOSETS
COLONIAL SIDING
CORNICE WORK
DAMP PLACES
DOOR FRAMES
DRAINS
DRAUGHTING BOARDS
DRYING FRAMES
ENAMEL TRIM
EXTERIOR TRIM
FENCES
FLOATS
FLOWER BOXES
FLUMES
GARAGE DOORS
GENERAL MILLWORK
GREENHOUSE WORK



USES FOR
MALTESE CROSS AIR DRIED CEDAR

INTERIOR BOAT WORK
LATH
LATTICE
MOISTURE INSULATION
MOULDINGS
OUTSIDE BALCONIES
PANELS
PATTERN WORK
PERGOLAS
PICKETS
PIPE BOXING
PORCH CEILINGS
PORCH COLUMNS
SCREENS
SHELVING
SHINGLES
SHUTTERS
SIGNS
SLEEPING PORCHES
STORE BLINDS
STORM SASH
TANKS
TEMPLATES
TEXTILE ROLLS
TRELLIS
WALLBOARD STRIPS
WINDOW FRAMES
WIRE CONDUITS

Cedar

For generations Cedar has been used and proved as one of the most lasting and weather-resisting of all woods.

Western Red Cedar

In our Great Northwest are the largest, oldest, and most perfect trees of the Cedar family. These Cedar trees are 500, some over 1,000 years old, and up to 16 ft. in diameter. Many trees are found on the ground with trees several hundred years old grown over them, and the Cedar wood is sound.

The Maltese Cross Cedar Mill

Since 1890 the owners of this mill have specialized in Cedar; they have studied building requirements for durability, attractiveness, comfort, upkeep, and other results. They have spent thousands of dollars experimenting, developing and perfecting machines and methods to furnish builders with Cedar products that will give the most satisfactory results.

Drying

Some woods are better if kiln dried. Cedar gives better results and is more economical to use and for upkeep if natural air seasoned. Maltese Cross Cedar is strictly natural air seasoned.

Seasoning

Our Cedar lumber is carefully cross piled, 50 to 60 feet high in the open, with the Hilke lumber piler, which was developed and patented by our mill manager.

Trade-Mark

Maltese Cross Cedar is the best known lumber Trademark, has been used since 1895, and is well known to builders, architects, and the lumber trade in the United States and some foreign countries. *This trademark enables you to identify this Cedar product and obtain the benefits from using it.*

Cost

Maltese Cross Air Dried Cedar lumber, siding, and other items, do not cost any more. As it is air seasoned and manufactured by special machines, and special grades, the net cost is less. Cedar does not cost any more than similar soft woods, especially when the Cedar advantages are considered.

Easy to Obtain

A large percent of the retail lumber dealers have Maltese Cross Cedar in stock and your dealer can obtain it quickly from the mill or from wholesale distributing points. You cannot afford to accept substitutes.

Wood Insulation

Scientific tests show that wood is a better non-conductor of heat, cold, and moisture than any other building material. Lap or Bevel Siding is the best method in wood to obtain insulation. Air Dried Cedar because it does not swell, shrink, warp, or check is given the preference for Bevel Siding.

Pitch and Resin

There is no pitch or resin in Cedar. Easy to paint, holds paint, and does not require repainting as frequently as other woods.

Standard Mill Items

All Air Dried Cedar.

Lumber ½″ to 4″ thick. All widths up to 40″ wide. Squares 4 to 12″.

Bevel Siding—½″ x 4, 5, 6, 8, 10 and 12″; ¾″ x 8, 10 and 12″. (Finished Widths and Thicknesses of Maltese Cross Siding—½″ x 3½, 4½, 5½, 7½, 9½, 11½; and ¾″ x 7½, 9½, 11½.)

Mouldings, Casings, Base and Trim, Standard Patterns.

Pickets, Lattice, Wall-board Strips, Ceiling, Flooring, Sheathing.

Shingles, dressed one side two edges, butts 9/16″ thick. Widths 4″ and 5½″. Lengths 16, 18, 20, 24, 30, 36″.

FOR SALE BY RETAIL LUMBER DEALERS

For further details and literature, write to Mill, or: **ARTHUR E. LANE LUMBER CORP.** Atlantic States Representatives New York, N. Y.

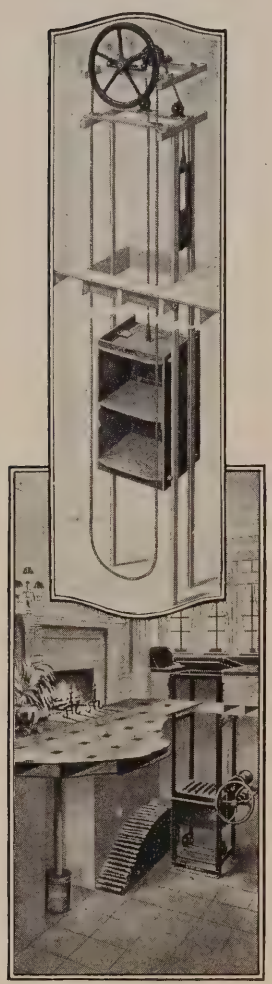
Sedgwick Dumb Waiters and Elevators

SEDGWICK MACHINE WORKS

134 West 15th Street, New York

Factory—Poughkeepsie, N. Y.

Dumb Waiter



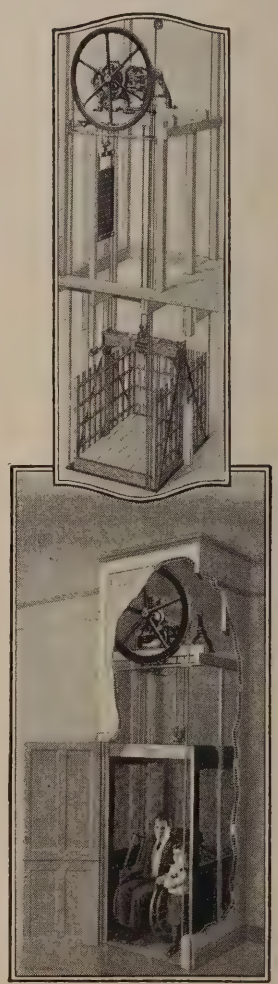
Fuel Lift

IN EVERY HOME there is use for at least one of the many types of Sedgwick Hand Power Dumb Waiters and Elevators.

The usefulness of the Sedgwick Dumb Waiters, Fuel Lifts, Trunk Lifts, Ash Hoists and other outfits has long been demonstrated, both in the saving of labor and effort and in protecting woodwork, doors, stairs, and other parts of the home always subjected to damage when objects of any weight are moved.

Sedgwick Automatic Brake Invalid Elevators are installed for those who cannot or should not climb stairs.

Trunk Lift



Invalid Elevator

OUR SERVICE DEPARTMENT will gladly send you catalog, blueprints, specifications and full details of outfit in which you are interested. Write for Forms 136, which outline information needed by us to recommend the exact outfit that will give best results in operation.

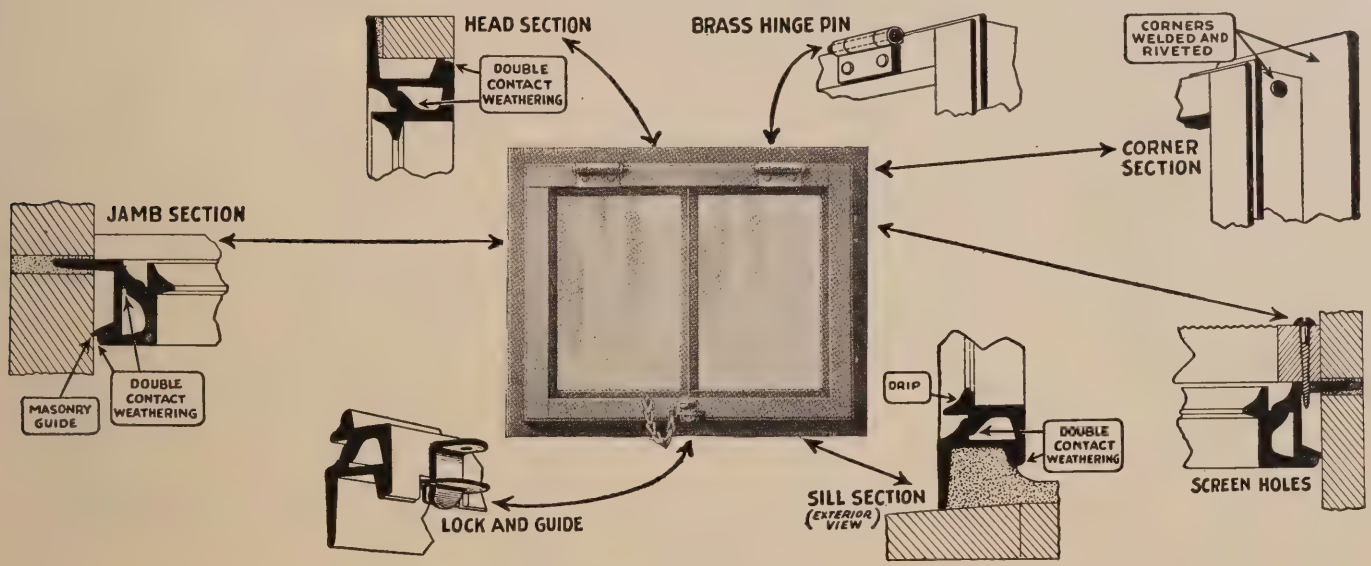
Crescent Steel Basement Windows

Manufactured by

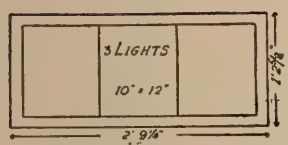
CRESCENT STEEL COMPANY

St. Louis, Mo.

Exclusive Features of Crescent Steel Windows

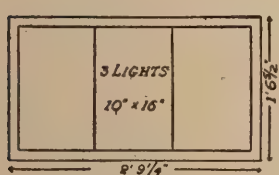


1. Only heavy steel bars used, no light gauge metal used at all.
2. Ventilators have patented double contact weathering.
3. Hinges are bushed against corrosion.
4. Corners of frame are riveted and then welded together, making a solid, stiff rigid frame.
5. Complete sash and frame, painted ready to install.
6. Lock and hinges attached. Brass hinge pins are removable. Glazing clips furnished with each sash.
7. Automatic guide insures easy operating sash.
8. Easily used with any type of foundation construction.



Type 3113-A

Crescent Basement Windows Are Sold by Lumber, Hardware and Building Supply Dealers



Type 3113-B

Types and Sizes

TYPE 3113A
Three lights wide; each glass 10 in. x 12 in.; Masonry opening 2 ft. 9¼ in. wide by 1 ft. 2⅝ in. high. Weight: 27 lbs.

TYPE 3113B
Three lights wide; each glass 10 in. x 16 in.; Masonry opening 2 ft. 9¼ in. wide by 1 ft. 6⅝ in. high. Weight: 30 lbs.

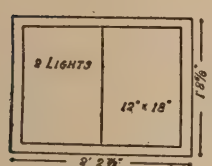
TYPE 2112C
Two lights wide; each glass 12 in. x 18 in. Masonry opening 2 ft. 2⅞ in. wide by 1 ft. 8⅝ in. high. Weight: 27 lbs.

TYPE 3113D
Three lights wide; each glass 12 in. x 18 in.; Masonry opening 3 ft. 3¼ in. wide by 1 ft. 8⅝ in. high. Weight: 35 lbs.

TYPE 2112E
Two lights wide; each glass 14 in. x 20 in.; Masonry opening 2 ft. 6⅞ in. wide by 1 ft. 10⅝ in. high. Weight: 30 lbs.

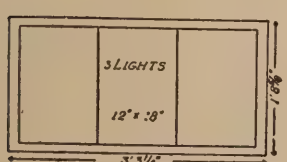
TYPE 2112F
Two lights wide; each glass 16 in. x 24 in.; Masonry opening 2 ft. 10⅞ in. wide by 2 ft. 2⅝ in. high. Weight: 34 lbs.

TYPE 3113G
Three lights wide; each glass 10 in. x 20 in.; Masonry opening 2 ft. 9¼ in. wide by 1 ft. 10⅝ in. high. Weight: 33 lbs.

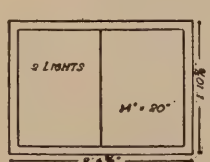


Type 2112-C

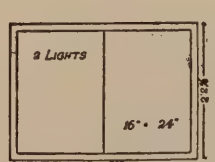
Complete Catalog Mailed on Request



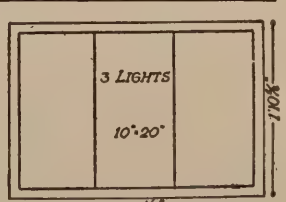
Type 3113-D



Type 2112-E



Type 2112-F



Type 3113-G

For further details and literature, write to: **CRESCENT STEEL COMPANY, ST. LOUIS, MO.**

Reswin Casements

Standardized Steel Windows

Manufactured by

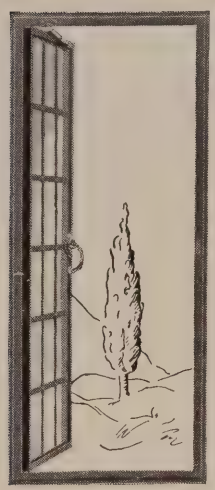
CRITTALL CASEMENT WINDOW CO.

10927 Hearn Ave., Detroit, Mich.

BRANCH OFFICES

New York City, 101 Park Avenue
Atlanta, Ga., 1520 Healy Bldg.
Cincinnati, Ohio, 708 Gerke Bldg.
Cleveland, Ohio, Builders' Exchange
Los Angeles, Calif., 606 S. Utah St.
Chicago, Ill., 105 W. Monroe St.
Kansas City, Mo., 605 Orear-Leslie Bldg.

Agents in All Principal Cities



Product

Reswin Casements, standardized steel windows for residence use. While the sizes and types adopted as standard are designed primarily for homes, they may be used for dormitories, clubs and similar structures.

Appearance

Striking effects in residence exteriors may be obtained through the employment of Reswin Casements. At the same time, their slender, graceful beauty lends a homelike atmosphere to interiors, allowing many unusual forms of treatment.



Comparison with Wood

Wood windows often require the care of a carpenter to keep them working properly. When sash cords break, the trim must be removed and the paint finish injured. In dry weather, wood windows shrink to an extent where they rattle and admit air. In damp weather they swell to a point where they stick and are opened and closed with difficulty. These troubles are typical of double-hung or sliding windows. Casement windows of wood are also troublesome. They almost invariably leak, even though expensively weatherstripped. In a short time, the racking they receive in opening and closing, causes them to deteriorate. Such faults are avoided by the use of steel casement windows. They always operate easily, are everlasting, and cost nothing for maintenance beyond an occasional coat of paint.



Shades and Drapes

Shades may be used on steel casement windows if desired, but as the windows themselves are ornamental, their beauty need not be hidden by shades. They can be easily and simply draped to give a most attractive appearance. A light, neutral tinted draw curtain for control of light and a heavier overdrape for privacy is usually preferred for home use.

Screens

Reswin inward-opening casements may have stationary screens on the outside. Such screens are as simple to apply as ordinary screens for wood windows, and are just as convenient. Outward opening casements must have screens on the inside. These screens are arranged to slide past one another so that the casements may be reached. They may also be of a type that swings in, or a special piece of hardware may be applied at the sill to open the casements through the screens. The various arrangements are all shown in our catalog on Reswin Casements, free to anyone on request.

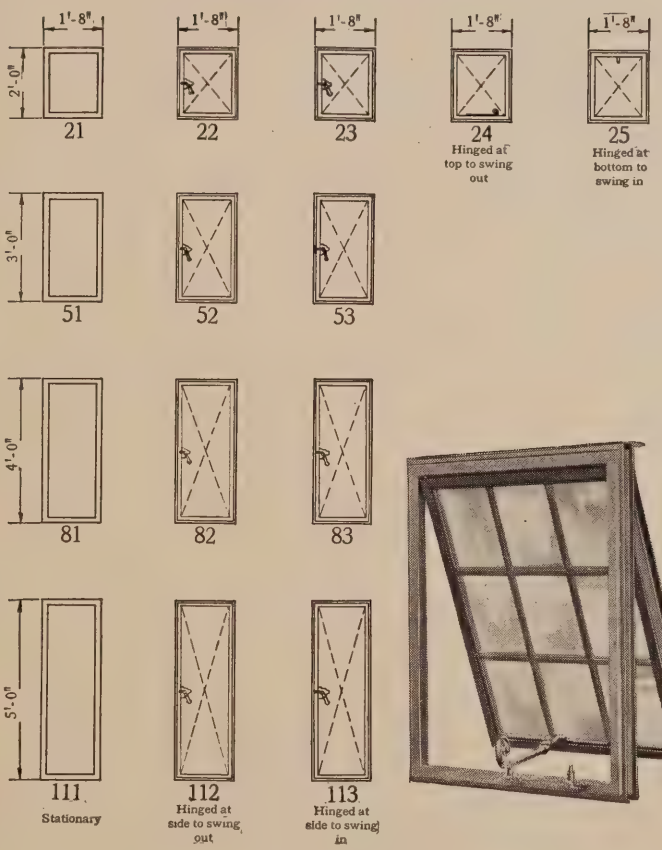
Guaranteed Weather Tight

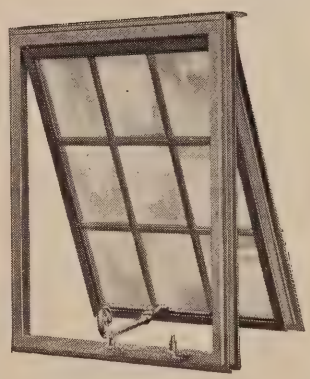
When erected according to instructions, Reswin Casements are guaranteed weathertight without the use of weatherstrips. This guarantee applies to both inward and outward opening types.

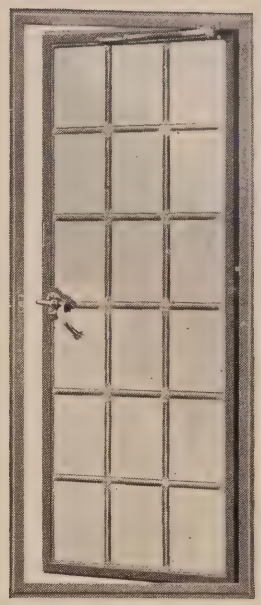


Casement type 82 is illustrated without glass. It may be glazed with leaded glass or with a single light of clear glass.

Standard Sizes and Types







Types 24 and 82, as illustrated, are glazed with D. S. A. glass set in ⅝-in. reinforced lead cames.

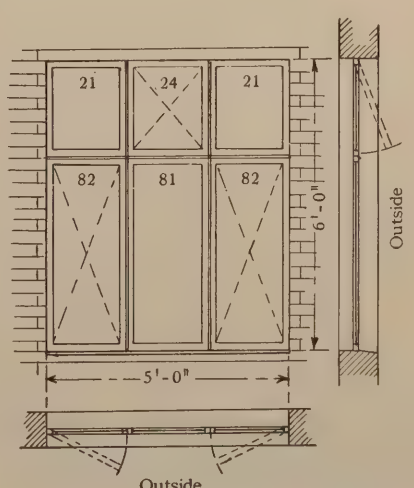
Inward Opening Casements Made Weatherproof

Inward opening casements are easily draped and screened and as Reswin Casements are narrow they do not interfere with interior arrangements when they open in. Reswin Casements are guaranteed weather-tight whether they open in or out. Standard types 23, 53, 83 and 113 are all hinged at the side to open in and may be used in attractive combinations with absolute certainty that they will give no trouble.



Combinations

Standard types shown above may be combined to form almost any sized opening. Add the widths of the casements to obtain the opening width dimension and add the heights of the casements to obtain the opening height dimension. All clearances and steel mullion connections are automatically cared for.



For further details and literature, write to: CRITTALL CASEMENT WINDOW CO., 10927 Hearn Ave. Detroit, Mich.





Cost and Quality

These standard windows may be installed at a cost generally only slightly in excess of wood windows when the expense of hardware, fitting, extra painting, etc., is all included. Such small extra cost makes it possible to use them in the smallest bungalow or cottage while the quality is such that these casements are suitable for use in the most expensive homes.

Hardware

Hardware on side hung casements consists of a solid bronze handle of pleasing design. At the head of the casement is attached a friction stay which is adjustable to meet local wind conditions. Bottom hinged transoms have a bronze spring catch for pole or hand operation and top hinged transoms have a bronze peg stay.

Welds

All four corners of both stationary frames and swinging frames are electrically welded. Steel plates for receiving the hardware are welded to the casement sections. No screws or rivets to work loose or break.

Steel

All steel used is Crittalloy, the copper-bearing steel. This steel is more enduring than ordinary steel and even if left unpainted would outlast by two or three times steel without a copper content. In addition copper-bearing steel forms a better surface for paint and will require less frequent painting than other steels.

Paint

Paint consists of two coats of shop paint, each coat baked on separately. A field coat of paint should be applied to the casements to dress them up after the wear and tear of shipping and erecting.

Workmanship

For over twelve years the Crittall Casement Window Company has been engaged in the exclusive manufacture of steel and bronze casement windows built to order for the most monumental work designed by the best architects in the country. Such a background of experience has bred in us a sincere desire to turn out the best workmanship that it is humanly possible to obtain. This is the best guarantee of our customers' satisfaction.



Service

Casements may be shipped promptly from stock when required. We will gladly undertake the erection of our sash when desired. In the preparation of plans our sales engineers will be glad to co-operate with the designer or builder in the detailing of our windows to secure an economical and practical installation.

Catalog

Send for free copy of our catalog containing detailed information on Reswin Casements.

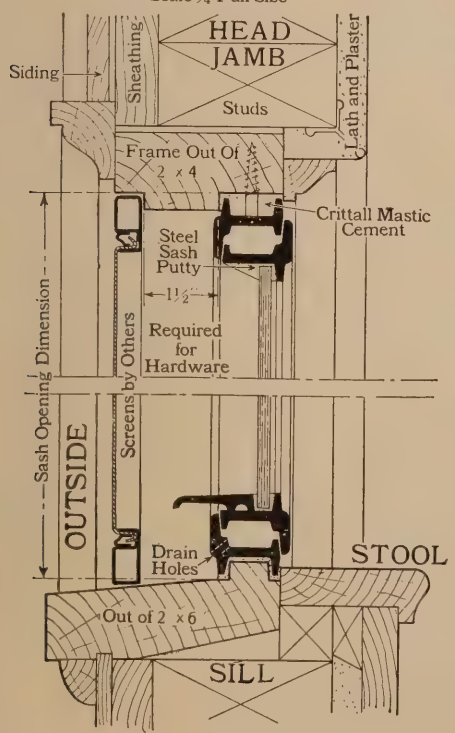




The photograph above illustrates the beauty of simple drapes applied to steel casement windows. Such drapery treatment may be used whether the casements open in or out. When the casements open out inside screens are used. Such screens are always kept clean and prevent drapes from blowing out and becoming soiled... When inward opening casements are used the casements themselves keep the drapes inside and prevent soiling.

CASEMENT SIDE HINGED OPEN IN FRAME CONSTRUCTION DETAILS

Scale ¼ Full Size

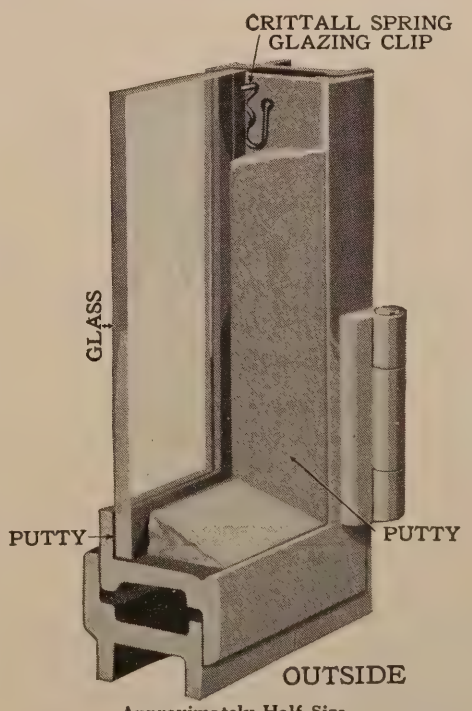


Ease of Installation

Reswin Casements are shipped complete with hardware, easily attached after erection, with mastic cement, with screws, lugs, or expansion shields as required, and directions for setting. Full sized details of how these windows may be set in any type of wall construction will be gladly sent upon request.

Weight of Sections

To the right is illustrated a corner of a side hinged sash showing the size of the sections, how weather-tightness is insured, the substantial solid bronze butts used, and the ease of glazing. This illustration is approximately one-half size.



Approximately Half Size

For further details and literature, write to: **CRITTALL CASEMENT WINDOW CO.,** 10927 Hearn Ave. Detroit, Mich.

Fenestra Steel Windows for Homes

Manufactured by

DETROIT STEEL PRODUCTS COMPANY

Detroit, Michigan

Fenestra Casement Windows



Type 6426



Type 4326

Fenestra casements are a distinctly English type of steel casement window for residences and apartments. They have the domestic atmosphere created by small panes and narrow muntins, the freedom of wide outswinging leaves and the practical operating and weathering qualities of the best English casement designs.

Being made from bars of solid steel, they are fireproof, never warp, swell, shrink, stick or rattle, and do not rot or decay.

The swinging sections close against the frame with a wide flat two point contact which forms an absolute protection against storms.

Solid steel construction and strong welded corners make possible the use of narrow muntins and framing members, thus increasing the area of glass.

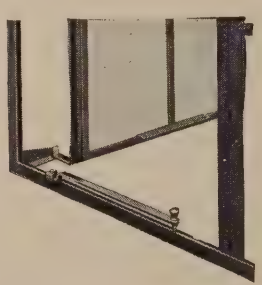
As compared to wood windows, Fenestra casements admit more light through the same sized opening—or the same amount of light through a smaller opening—thus conserving wall space.

Fenestra casements are screened on the inside. This prolongs the life of the screen, keeps the windows cleaner and protects curtains and draperies.



Fenestra Casement Hardware

The swing leaves are locked by a handle which moves on a bronze bolt and is so attached that constant operation cannot cause it to work loose.



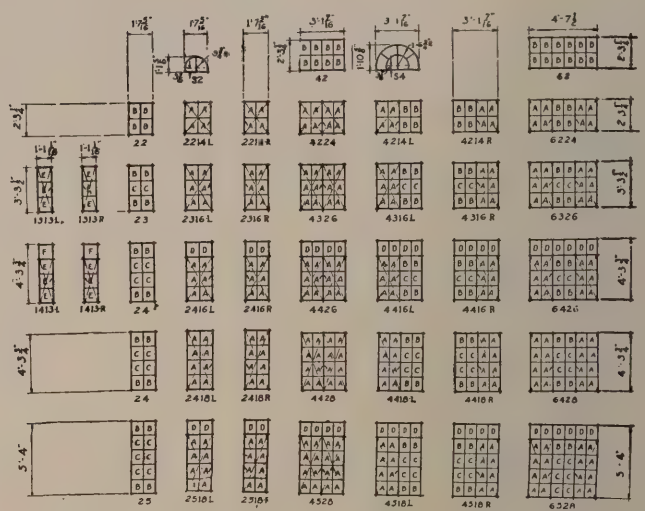
Casement stays are available in two types—the Peg and Stay, as shown, which has a 10″ arm terminating in a bronze peg which fits into holes in the plate attached to the sash; and the Sliding Stay, which locks the swing leaf automatically in any position.

Standard handles and stays are malleable iron, with black, rust-resisting finish. Bronze hardware is optional at slight extra cost.

Hinges are solid steel, riveted and welded in place. They are of the extension type, swinging the sash away from the frame and providing an opening through which the windows may be cleaned from inside the room.

FULL SIZED INSTALLATION DETAILS ON REQUEST

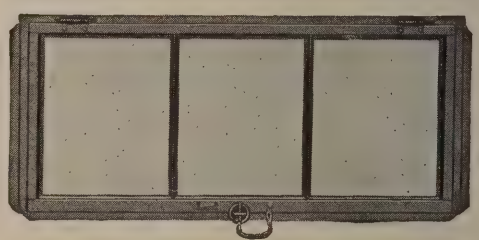
Fenestra Stock Types



Casement glass sizes are indicated by the letters in the center of each light—"A," 8″x12″; "B," $8\frac{11}{16}$″x12⅝″; "C," $8\frac{11}{16}$″x12″; "D," $8\frac{11}{16}$″x11¾″; "E," 10″x12″; "F," 11″x11¾″.

A casement window is right- or left-hand according to whether the hinges are on the right or left, looking at the window from the outside. Units with two ventilators have one right- and one left-hand swing member. In ordering units with single ventilators, specify whether right- or left-hand.

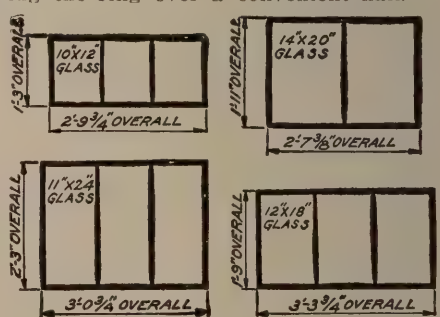
Fenestra Steel Basement Windows



They are made from solid rolled steel sections that never warp nor stick but always open and close easily. They come with sash, frame, and hardware assembled and painted one priming coat—ready to install. Sash are easily removed for glazing and are interchangeable, due to accurate manufacture. A wedge lock closes the window tightly and the ring-and-chain feature forms a means of holding the sash open, by hooking the ring over a convenient nail.

They are adaptable to any type of construction—as easy to set in poured concrete or concrete block as in brick.

They are for sale by local dealers who carry them in stock for immediate delivery.



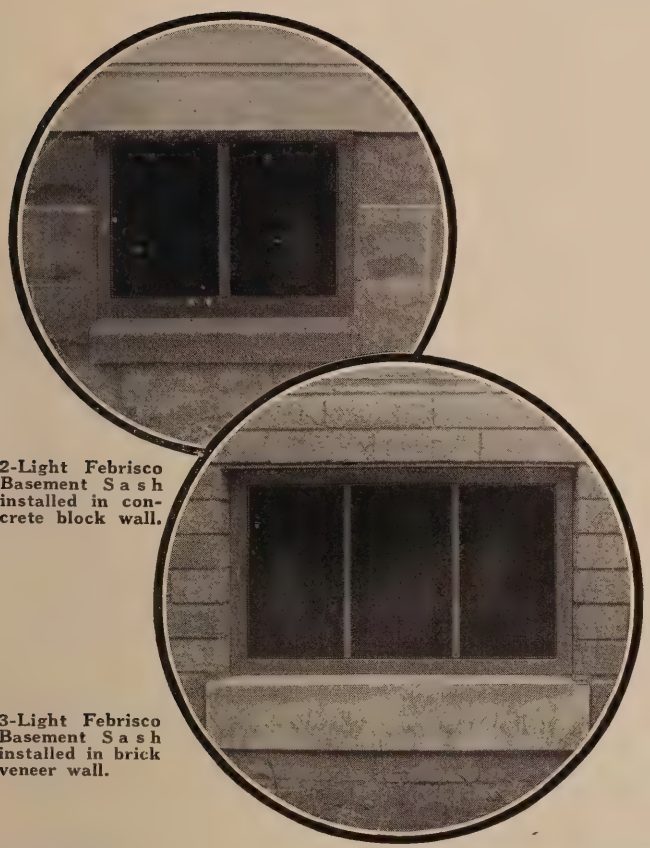
For further details and literature, write to: **DETROIT STEEL PRODUCTS COMPANY, Detroit, Mich.**

FEBRISCO Welded Solid Steel BASEMENT SASH

Made by

FEDERAL STEEL SASH CO.

Waukesha, Wisconsin



2-Light Febrisco Basement Sash installed in concrete block wall.

3-Light Febrisco Basement Sash installed in brick veneer wall.

Products

This company manufactures Welded Solid Steel Sash for installing in the basement walls of houses and in the walls of garages. They also make steel store front and show window sash, steel sash for industrial buildings, fixed and ventilated sky-lights.

Advantages of Welded Solid Steel Basement Sash

With the same size wall opening, steel sash brings from 60 to 80 per cent more daylight and sunlight into the basement than wood sash and frame, making a lighter, drier, cleaner, sweeter, more cheerful basement.

Welded solid Steel Basement Sash cannot rot, warp, stick or bind. They are positively weather-tight and vermin-proof, and stay that way. This means a warmer basement in cold weather and greater efficiency from the heating plant.

With a minimum thickness of ⅛ of an inch, steel sash is exceptionally strong—it cannot break. The coal man cannot damage steel sash like he does wood sash so often when putting fuel into the cellar.

Steel sash anchors permanently into basement walls and can be set by the mason in brick, stucco, veneer, cement block, tile, masonry or poured concrete walls.

There are no hinges, locks or catches to be attached as hinges and lock are attached to and form a part of the sash itself.

Steel sash are made in standard glass sizes. Are neat and attractive in appearance, and durable. Set in a basement wall, they cost less than wood sash, frame and hardware.

Construction

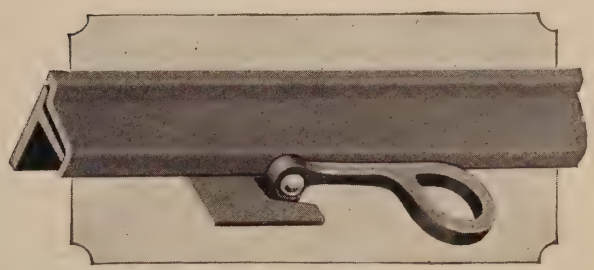
Febrisco Welded Solid Steel Basement Sash is constructed of solid steel rolled sections with all joints electrically welded. Ventilator of sash is fastened to the frame by strong and substantial hinges fitted with removable pins which permit easy and quick removal for glazing, which can be done either before or after installation. Each sash is given a priming coat of Red Oxide Paint at the factory before shipment, saving time and money when painting.

Screens and Storm Sash Easily Attached

Each Febrisco Steel Basement Sash is fitted with brass screws and wing nuts for the attaching of screens or storm sash. Holes are drilled in the frames of screens or storm sash, the brass screws run through the screens or storm sash and brought to snug fit by turning up the wing nuts.

Standard Sizes

No. of Lights	Mark	Glass Size	Prices
2	2MD	14x20	$3.95
3	3MA	10x12	3.95
3	3MB	10x16	4.25
3	3MC	10x20	4.25



Cam Lock Handle

Cam Lock Handle

The cam lock handle shown above is strong and serviceable. When the ventilator is closed and the handle turned in locking position, the ventilator is forced into a continuous double contact with the frame insuring a positively air-tight and rain-proof window.

For Garages

Febrisco Welded Solid Steel Industrial Sash Units in the 14x20 inch glass sizes make the best windows for garages or factories.

They can be furnished in a variety of sizes, arranged for from six to twenty-five panes of glass, in either solid units or with ventilators admitting an unusual amount of light, air and sunshine.

They are strictly weatherproof and all ventilators have double contact weathering. There are no ridges or projections to collect dust and moisture.

Made of solid rolled steel sections with all joints electrically welded. Square and true to dimensions, exceptionally strong and durable, and will not rack out of shape.

Adjustable mullions make erection simple and easy.

Installation Details

Any contractor or builder, upon request, will receive full particulars regarding Febrisco Welded Solid Steel Sash, or other products, and blue prints showing the simple and easy method of installing. Correspondence invited.

Litharge Putty

This company furnishes at reasonable prices, the best grade of litharge putty packed in convenient size steel drums for use with steel sash. Glazing clips are furnished with sash at no extra cast.

For further details and literature, write to: **FEDERAL STEEL SASH CO., WAUKESHA, WIS.**

HOFFMAN CASEMENT WINDOW

Made By

ANDREW HOFFMAN MFG. CO.

28 East Jackson Blvd., Chicago

Products:

This company manufactures the complete (patented) Hardware for the installing of Casement Windows possessing many outstanding advantages. The wood sash and frames can be built by any planing mill, in any size and design, to meet any requirements. Full details for millwork construction, with recommendations for sizes best adapted for various purposes will be furnished by the Andrew Hoffman Mfg. Co. on request. Because the millwork for Hoffman Casements is so nearly "standard" the fixtures may be installed on old windows with but few changes.



Showing the application of Hoffman Casement Windows in modern brick dwelling

Unit System of Construction:

Window openings may be of any desired width from a small, single window such as is generally used for daylighting and ventilating a clothing closet to the large opening preferred for sleeping rooms, enclosed porches, etc. The complete window may consist of any number of sash from one up because Hoffman Casements are composed of single and double units and used in various combinations. A 3-sash window is made up of one single and one double unit. A 4-sash window consists of two double units. No mullions or upright posts are necessary so all sashes may be folded either side of opening leaving no obstruction to view or ventilation. The sash swings both ways—as desired—an exclusive "Hoffman" feature.

Each unit is operated separately, never more than two sash being hinged together. Each sash may be as large as 2½ feet wide and 7 feet high, although such large windows are seldom required and smaller sizes are recommended as being more satisfactory.

Double Units:

The sashes of double units are hinged together at three points of their inner frames so that they open outward V-shaped, forming a brace for each other and holding firmly against wind pressure. They are not fastened to the jambs in any way being entirely free to be moved to any part of the window opening.

The sashes are suspended at the top by rollers attached to each sash at the top corner farthest from the hinges. These rollers operate in a metal channel track screwed to the underside of the top of window frame. At the bottom of each sash, in a direct line with the top rollers, are guides engaging a flanged track on the window sill, so each double unit or pair of sash is held firmly at all four corners and hinged together in the center. The bottom guides allow a substantial amount of vertical play to allow for sagging or minor variations from level, insuring easy and smooth action at all times.

Single Units:

The single sash is permanently attached to one jamb and cannot be moved to any place in the opening as can Hoffman Casements hung in pairs. It can be reversed sufficiently to permit cleaning both sides from inside the room. No hinges are required for single sash. With this exception and the addition of stay arms (see diagram on next page) the fixtures are identical with those used on double units. The stay arms stabilize and guide the sash during operation and hold it in a position of 90 degrees or more when open. Stay arms are mortised into the top and bottom rails and side jambs and are practically invisible when the window is closed. Fixtures for single sash are made for right and left hand opening, so the swing of sash should always be clearly specified.



Adds to Attractiveness of Home:

Casement windows are much to be preferred architecturally as they fit into and harmonize much better with most building designs than the ordinary type of window. Hoffman Casements have thoroughly removed the objections of leakage and inconvenient operation formerly associated with casement windows and are now being used by many of the leading architects and builders for buildings of every type because of their beauty and many other advantages. Upwards of one hundred thousand are in successful operation.



Hoffman Casement Windows permit Unobstructed View (note how windows are gathered at either end of lower opening) and Controlled Ventilation.

Greater Light and Ventilating Area:

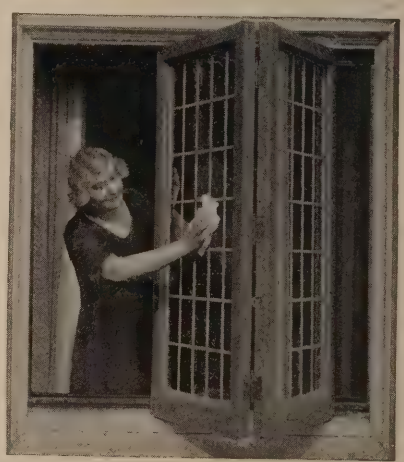
Hoffman Casements permit greater glass area in an opening of any given size than any other form of window because mullions may be omitted entirely or may be exceptionally narrow if used. This is advantageous in most rooms, particularly in sun rooms, bedrooms, sleeping and enclosed porches, etc.

Perfectly Controlled Ventilation:

With Hoffman Casement Windows ventilation may be had in the degree wanted, without draft. When opened slightly the sashes remain in contact with each other and with the jambs thus forming a flue at the center through which the impure air passes out at the top while fresh air comes in at the bottom, without any direct draft. A breeze may be deflected into or away from the window opening by folding the sashes to one side or the other of the opening. In multiple sash openings any unit may be opened without disturbing the others, permitting ventilation just where it is wanted.

Easily Cleaned:

Hoffman Casements are cleaned in half the usual time and with considerably less work. Windows are opened to the most convenient position and both sides cleaned quickly and safely from the inside. Curtains or drapes need not be taken down or disturbed as the window sashes move to any part of the opening. Water cannot drip inside because the sashes are outside.



Easy to clean both sides from the inside of room. No sitting outside of windows with danger of falling.

HOFFMAN CASEMENT WINDOW (Cont'd)

Will Not Stick or Bind:

Hoffman Casements cannot warp—there is no sticking in rainy or damp weather—they always open and close easily. The sashes being hung from rollers at the top, and not depending upon tight fitting to make them weather or rattle-proof, ample allowance can be made to take care of maximum swelling, assuring easy and smooth movement under all conditions. In ordinary windows, to guard against leakage and rattling, no space can be left for expansion—when the sashes absorb moisture they swell tightly against their frames and are often impossible to raise or lower.

Give Double Weather Protection:

Hoffman Casements provide double the weather protection of any other window. The sashes enter into a pocket at the jamb about like the ordinary upsliding window except that the sash are fitted to the pocket without playroom for sliding. At the sill, in place of the usual single stop, there is a double weather strip past which it is impossible for water to blow even in the most driving rain. The sashes interlock at the points where they are hinged together and at the top they close tightly against a stop. No weather-strips of any kind are necessary.

Cannot be Opened from Outside:

Hoffman Casements can be securely locked both at top and bottom by special fasteners which draw the sash perfectly tight. They cannot be opened by force from outside.

Eliminate Maintenance Expense:

There are no cords or chains to break nor pulleys or other operating mechanism to get out of order.

All Kinds of Window Decoration May Be Used:

Any kind of curtains, shades or drapes may be used as they are suspended from the woodwork above the window opening just as they are with the ordinary upsliding window. Any of the ordinary types of porch shades, venetian blinds or ownings can be used, and outside shutters too, where desired.

Four Grades and Finishes:

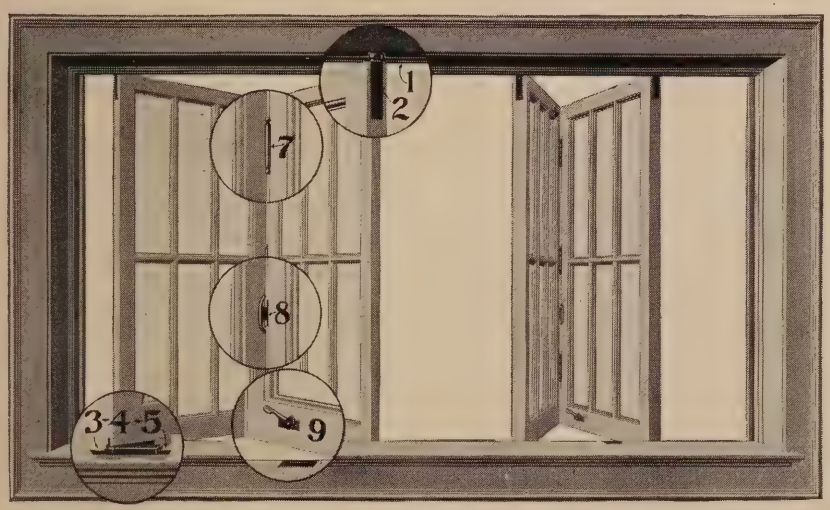
Hoffman Casement Fixtures (U. S. and Foreign Patents) are manufactured in four grades and four standard finishes. Special finishes furnished to order.

Distribution:

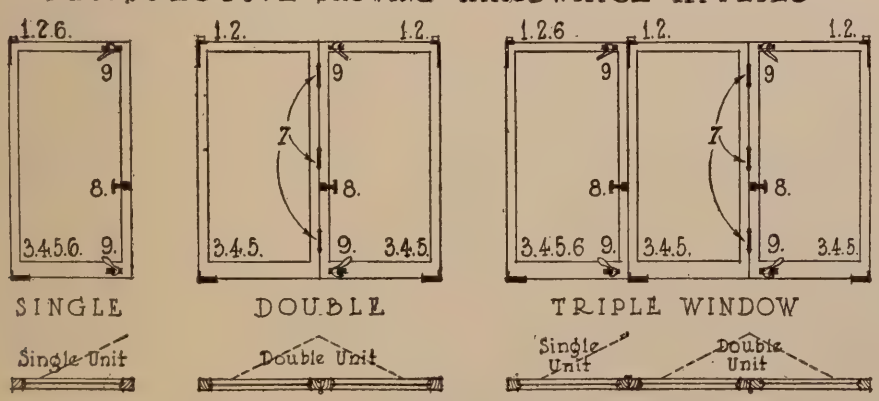
Through agents located in principal cities at uniform selling prices—F. O. B. Chicago.

Send for Literature:

Portfolio 27C2 will be sent to contractors and builders on request. This is a loose leaf booklet containing all millwork and other details of Hoffman Casement Windows.

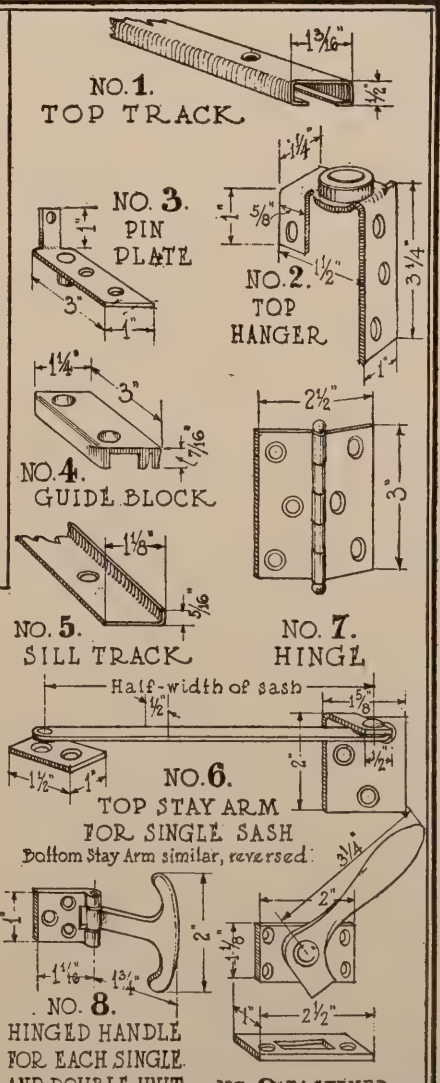


PERSPECTIVE SHOWING HARDWARE APPLIED



KEY PLANS AND ELEVATIONS
SHOWING OPERATION OF VARIOUS COMBINATIONS OF SASH

NOTE: WHEN THERE ARE MORE THAN THREE SASH, THEY ARE MADE UP OF COMBINATIONS OF DOUBLE AND SINGLE SASH UNITS.



DETAILS OF HARDWARE

For further details and literature, write to: **ANDREW HOFFMAN MFG. CO.** 28 East Jackson Blvd. CHICAGO

HOFFMAN CASEMENT WINDOW (Cont'd)



Hoffman Casements open like a porch—unobstructed view and ventilation.



Close air-tight and weather-proof. Securely lock at top and bottom—cannot be opened from outside.

Make the Open Summer Porch An All-the-Year-Round Room:

In the average home the most popular place in summer—the open porch—is a total waste in winter.

Hoffman Casement Windows and a little carpenter work will turn the open porch into a cosy, cheerful, weather-tight, all-the-year-round sun room which is instantly converted into the breezy, open porch, with unobstructed vision by opening the sash and moving them to either end or arranging them in any way desired because Hoffman Casements can be operated or moved in pairs at will each double unit being entirely independent of any of the others.

A Hoffman Casemented porch can be pleasantly and comfortably furnished because closing the sash makes the former open porch as air-tight and weatherproof as any room in the house. Any style of curtain, blinds, or window decorations can be used. No interference with awnings or screens.

Adding another living room to the house by installing Hoffman Casements on the open porch is not like tearing up the porch to build an ordinary sunroom. Work can be done easily, quickly and economically. The details at bottom of page show how existing plain sills, jambs and heads can be converted into frames to receive Hoffman Casements easily and economically by a simple system of stops, without the necessity of new frames.

Every Bed Room Becomes a Real Sleeping Porch:

By using Hoffman Casements every bed room can have the ample, healthful ventilation that has popularized sleeping porches.

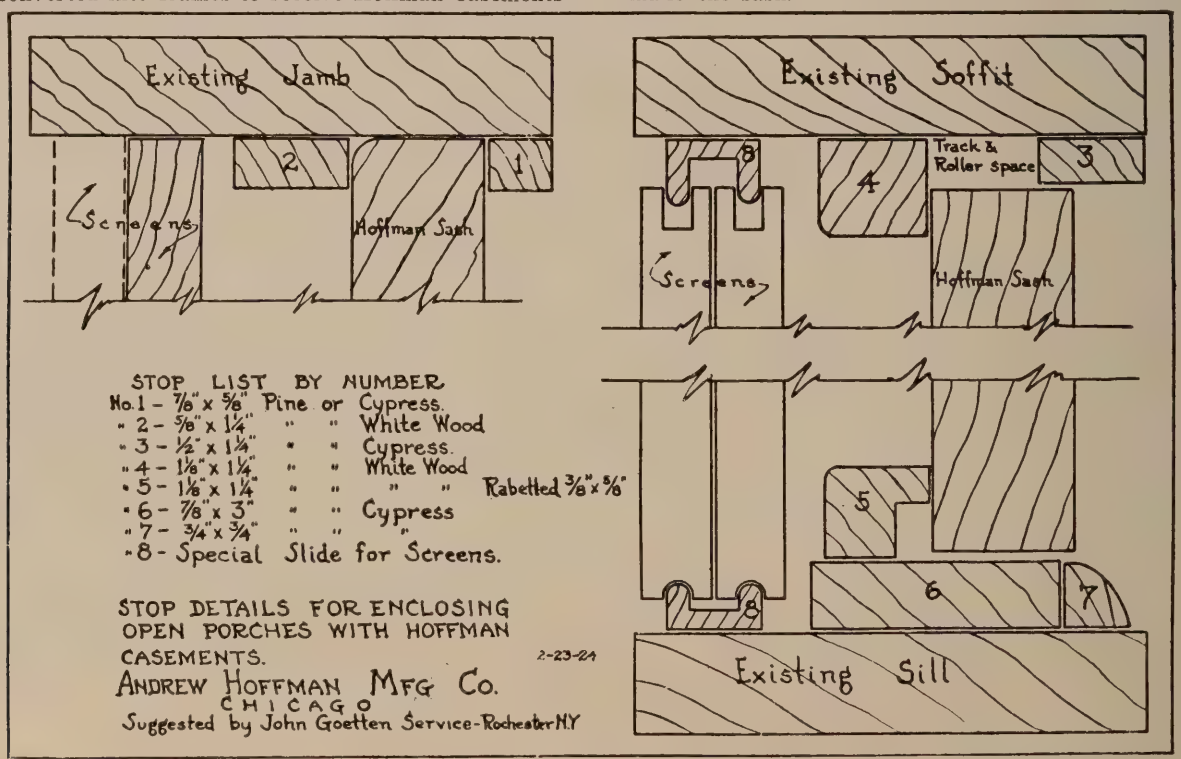
Larger window openings can be arranged and ventilation perfectly controlled as Hoffman Casements are built up to any desired size through utilizing single and double units, each unit operating independently of the others.

No mullions or upright posts are necessary so all sashes can be folded to either side of the opening without obstruction to view or ventilation. The sash swings both ways—an exclusive Hoffman feature.

Shades, curtains and draperies are hung from the frame above the window just like they are when ordinary upsliding windows are used. Screens may be installed either inside or outside.

Both sides of Hoffman Casements are easily washed and cleaned from inside the room without danger of falling, or disarranging of curtains or draperies.

We furnish full size details with hardware. Any mill can make the sash.



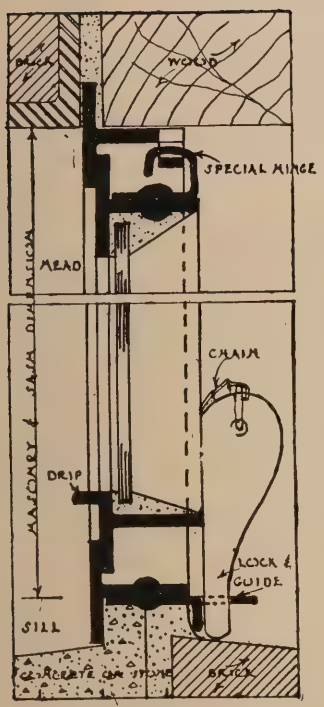
For further details and literature, write to: **ANDREW HOFFMAN MFG. CO.** 28 East Jackson Blvd. CHICAGO

NATIONAL BASEMENT WINDOWS

Manufactured By

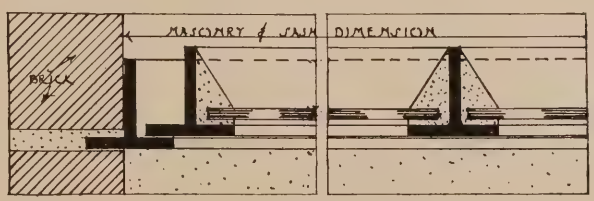
NATIONAL STEEL PRODUCTS COMPANY

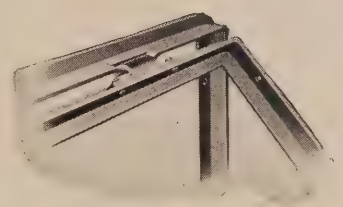
6900 South Water St.—Saint Louis, Mo.



National Windows have many features that make them first choice with careful builders. No steel window is simpler in design or better made. Frame and ventilator are built of ⅛ inch steel bars. Frame is one piece—no possibility of it rocking out of shape, even with the roughest handling. Ventilator is made of two pieces, with effective drips and weathering to insure a weather-tight window. These ventilators allow 100% ventilation and they are interchangeable for same size frames. Easy to screen, too—see detail drawings.

A high class steel window selling at a moderate price—that's National. And that's what you want.





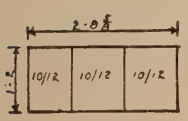
SPECIAL HINGES

Ventilators are attached to frames by ingenious hinges. To remove ventilator for glazing or cleaning, simply tilt it and pull it in. No tools needed; and no hinge-pins or rivets need be removed.

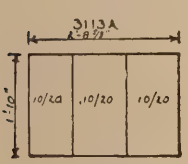
How National Basement Windows Are Installed

The diagrams below show how easy it is to install National Steel Basement Windows in any type of construction. You can recommend these windows because they admit 50% to 70% more light, provide better ventilation, can't warp or crack, can't swell or stick, always open and shut easily; also because they are weather-tight, wear-proof, complete with hardware, already painted and fire retardant.

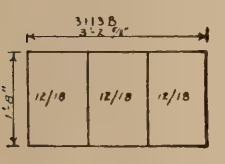
TYPES AND SIZES



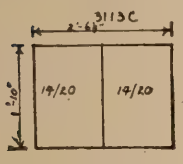
Type 3113-A. Three lights wide; glass size 10"x12"; masonry opening size 2'x8⅝" wide by 1'x2" high; weight 14 lbs. Price $3.50.



Type 3113-B. Three lights wide; glass size 10"x20"; masonry opening size 3'x2⅝" wide by 1'x8" high; weight 16 lbs. Price $3.75.

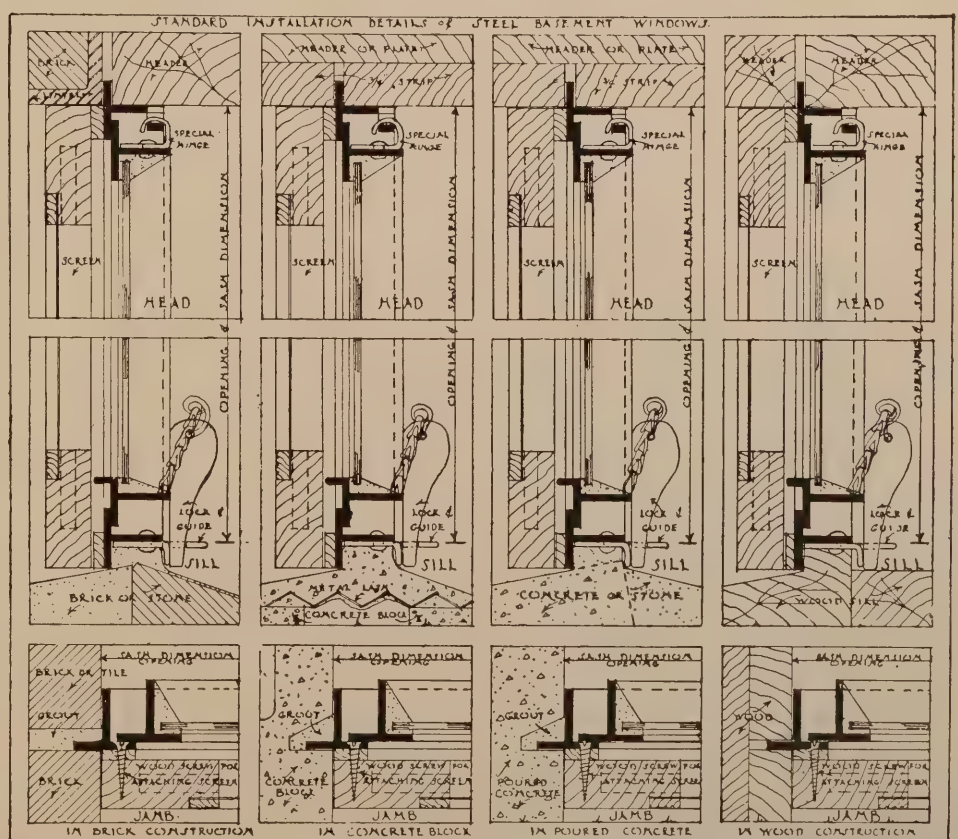


Type 3113-C. Three lights wide; glass size 12"x18"; masonry opening size 3'x2⅝" wide by 1'x8" high; weight 16 lbs. Price $3.75.



Type 2112-D. Two lights wide; glass size 14"x20"; masonry opening size 2'x6¼" wide by 1'x10" high; weight 14 lbs. Price $3.50.

Furnished complete with sash and frame, but no glass. Painted one coat of gray.



For further details and literature, write to: **National Steel Products Company** 6900 S. Water St. ST. LOUIS, MO.

LUPTON STEEL CASEMENTS

Manufactured by

DAVID LUPTON'S SONS COMPANY

PHILADELPHIA

ATLANTA
BALTIMORE
BOSTON
BUFFALO
CHICAGO
CLEVELAND

18 71
LUPTON
STEEL
WINDOWS
everywhere

DALLAS
DETROIT
LOS ANGELES
NEW YORK
PITTSBURGH
NEWARK

Dealers Everywhere

Products

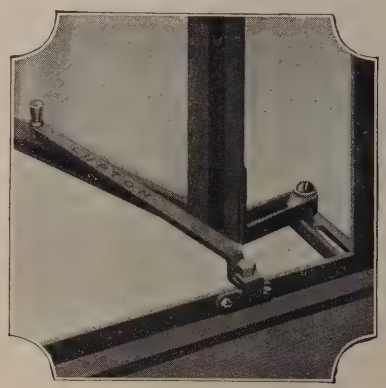
Lupton Casements of Copper Steel in 49 standard sizes for every type of house construction. And Lupton Basement Windows of Copper Steel for residential basements, homes, garages, etc.

Permanently Practical

Because steel remains the same size in all weathers, steel windows are made to fit closely and permanently. Lupton Steel Casements do not stick nor warp, but are durable and unchanging whether wet or dry. Their fire-resisting value is self-evident.



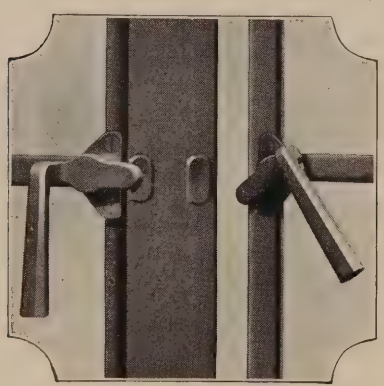
Well placed and graceful windows give an irresistible charm to any house. They add to the comfort and beauty of the home more than any other feature.



A peg stay holds the window open at desired angles for ventilation. The tapered brass peg at the end of the stay fits snugly into various holes in an angle fastened to the lower sash member. A sliding adjuster with brass slide and thumbscrew will be furnished when specified.

Beautiful and Inexpensive

These casements bring the charm of old English architecture to your home together with the comfort and efficiency demanded in modern dwellings. Equally important, they are available at moderate cost, thanks to the economies of quantity production.



Attractive hardware partly accounts for the popularity of Lupton Casements. The handles of the ventilators are of clean-cut design, pleasantly ornamental but not overly conspicuous. They are just the right size for convenient use and are securely attached in a manner which leaves no unsightly screws or bolts to be viewed from the outside.

Charming and Convenient

Steel Windows are the most desirable for residences, as their widespread use has amply proved. Their thin graceful lines appeal to good taste even before the practical experience of opening and closing shows their convenience.



EASY TO KEEP THIS WINDOW CLEAN

A feature which every housewife will appreciate is the ease with which both sides of the Lupton Casements can be washed from the inside of the room. These casements keep out dust, too, better than ordinary, loose-fitting windows, and thus lighten the burdens of housekeeping.

For further details and literature, write to: **DAVID LUPTON'S SONS COMPANY, Philadelphia, Pa.**

LUPTON STEEL CASEMENTS

Lupton Casements Help Sell the House

As steel casements are more generally used, people are coming to associate them with modern home comfort. The steel window house bears the stamp of modern construction for all to see. For this reason, wise builders know that they increase the value and hasten the sale of their properties when they install Lupton Casements in houses and apartments. They realize that while the initial cost of Lupton Casements is not much higher than that of wood sash, the resale value of a Lupton-equipped house is maintained at a considerably higher level by the permanence and desirability of its windows.

A large percentage of new houses are finding an active market largely because of their steel casements. Lupton casements may also profitably be used in remodeling old properties as these windows are so designed that they may be readily installed in any type of construction.



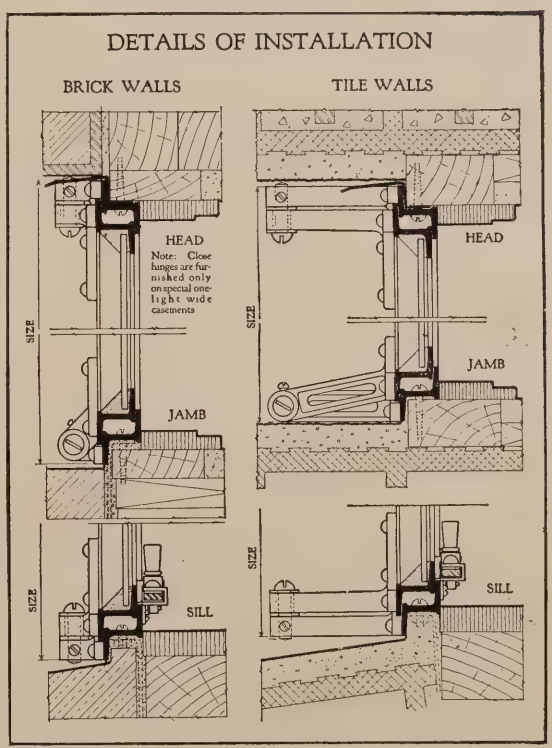
A charming dormer—and a weather-tight job.

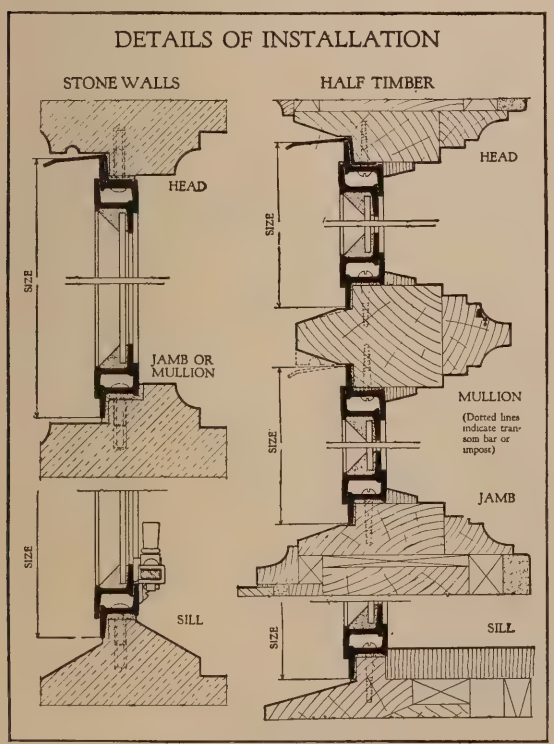
An Economy for the Builder

Lupton Casements are an economy for the builder as well as the owner. Requiring no weather strips nor wood trim, they save money on both material and labor.

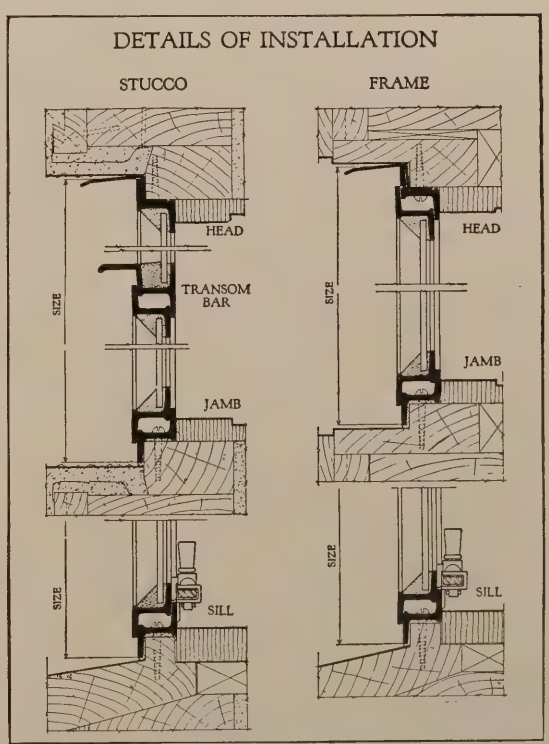
Lupton Service

Lupton service, available at all Lupton branch offices, includes advice regarding details of installation. Recommendations for screening, shades and draperies, as applied to your individual requirements and particular style of house, will also be furnished on request. Call upon this service freely. It is gladly given without obligation.





Rigidly Welded, Easy to Set in Any Type of Construction



For further details and literature, write to: **DAVID LUPTON'S SONS COMPANY, Philadelphia, Pa.**

LUPTON STEEL CASEMENTS

Manufactured by

DAVID LUPTON'S SONS COMPANY
PHILADELPHIA

ATLANTA
BALTIMORE
BOSTON
BUFFALO
CHICAGO
CLEVELAND

Dealers

18 71
LUPTON
·STEEL·
WINDOWS
everywhere

DALLAS
DETROIT
LOS ANGELES
NEWARK
NEW YORK
PITTSBURGH

Everywhere

Made of Copper Steel Sections

Lupton Casements combine with the usual advantages of steel windows many special improvements. More special rolled sections are used in these casements than in any other make; yet on the whole, Lupton uses a fewer number of pieces. The use of solid copper steel sections and a new process of rigid welding mean that these windows are built to defy time.



The architect owner of this home had every opportunity to study various types of windows. He equipped his home throughout with Lupton Windows of Copper-steel. This house received honoroble mention in the 1925 **House Beautiful** Small Home competition.

Special Refinements

Wide weathering contacts make them weather-tight, while strong bronze-bushed hinges prevent binding. The ease with which the ventilators may be washed from the inside also contributes to the utility of these beautiful casements.



Lupton Casements are suited to practically all types of residential architecture. They are particularly harmonious with the English style house.

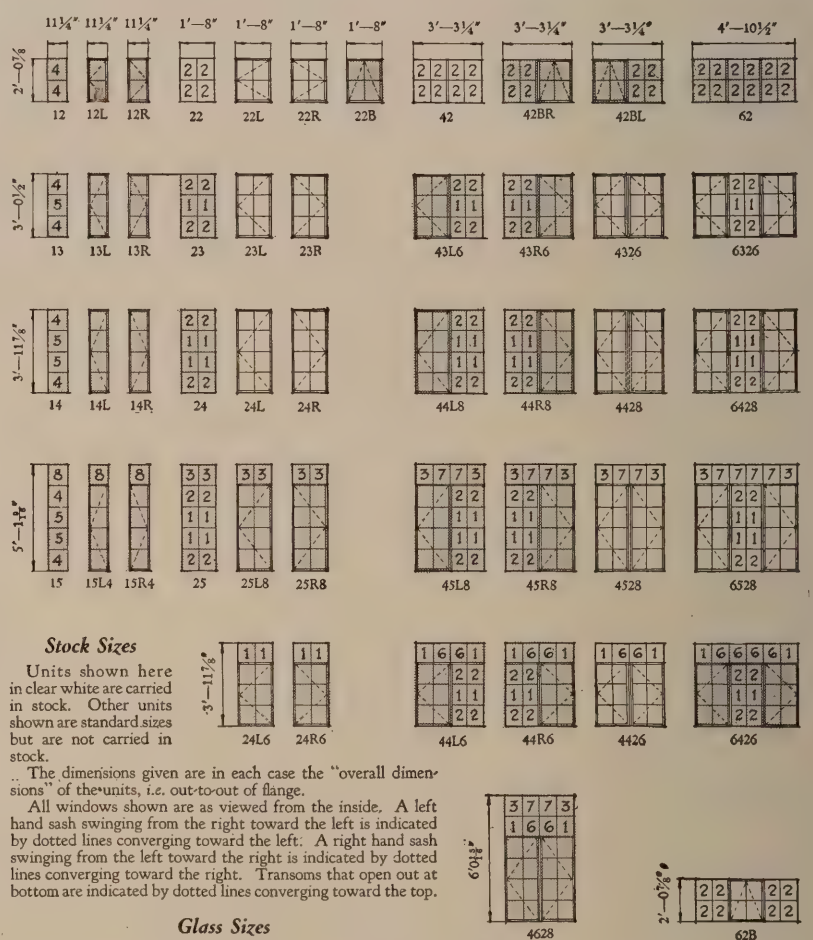
Appeal to Builders

Lupton Casements come completely assembled with full directions for setting. They are as easy to set as wood windows. Glazing is quickly accomplished with the Lupton special glazing clips and steel sash putty.

Standard Sizes

The builder has the advantage of an unusually wide choice of standard sizes when he uses Lupton Casements. 49 combinations of units are standard and will fit almost every conditions of architectural plan and local building site. See diagrams of standard and stock sizes below. Orders for stock sizes can be shipped immediately from conveniently located warehouses.

STANDARD SIZES



Stock Sizes

Units shown here in clear white are carried in stock. Other units shown are standard sizes but are not carried in stock.

The dimensions given are in each case the "overall dimensions" of the units, *i.e.* out-to-out of flange.

All windows shown are as viewed from the inside. A left hand sash swinging from the right toward the left is indicated by dotted lines converging toward the left. A right hand sash swinging from the left toward the right is indicated by dotted lines converging toward the right. Transoms that open out at bottom are indicated by dotted lines converging toward the top.

Glass Sizes

All lights of glass are 8½"x11" except those noted otherwise.
Lights marked 1 are 9"x11" Lights marked 5 are 9½"x11"
Lights marked 2 are 9"x11½" Lights marked 6 are 9¼"x11"
Lights marked 3 are 9"x13" Lights marked 7 are 9¼"x13"
Lights marked 4 are 9½"x11¼" Lights marked 8 are 9½"x13"

NOTE: Sizes shown in clear white are carried in stock

The wide variety of standard size Lupton Casements is shown in the above diagram. The range of size and type is wide enough to provide a window for any ordinary requirement or any style of architectural treatment.

For further details and literature, write to: **DAVID LUPTON'S SONS COMPANY, Philadelphia, Pa.**

LUPTON BASEMENT WINDOWS

Products

Lupton Basement Windows of copper steel permit the builder to capitalize on steel windows from cellar to attic and should always be used in conjunction with Lupton casements, shown on page 238, 239, and 240.

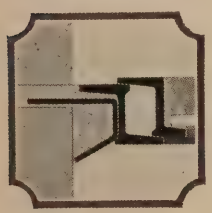
New and Improved Basement Windows

Lupton Basement Windows improve the looks of a house both inside and out and add to its permanence. They make downstairs a comfortable part of the house. They admit abundant fresh air when desired and give 88% more light than can be obtained through old-fashioned sash.



Solid Steel Drip

An extra degree of weather protection is gained by the solid steel drip, which is an integral part of the bottom sash member.



Continuous Anchors

Continuous anchors at the sides of the frame project into the masonry and give a solid weather-tight job. They also serve as masonry guides and add rigidity to the frame. See detail view opposite.



Masonry Guides

The short leg of the continuous anchors forms a definite line for the mason to work to, and makes certain that the sash will open freely when the window is set in the wall. See sectional detail above.



Self Centering Lock

The wedge pin in a slotted keeper draws the sash tightly against the frame and locks it. The chain and hook serve to hold the window in open position.



Copper-Steel Sections

Solid casement sections of copper-steel are used for both the window frame and the sash. The new Lupton method of electrically welded assembly gives great rigidity and prevents distortion.



Loose Pin Hinges

Hinge butts are solidly riveted to the frame and the sash, but the sash may be removed from the inside for glazing, either before or after setting by removing the pins from the split hinges.

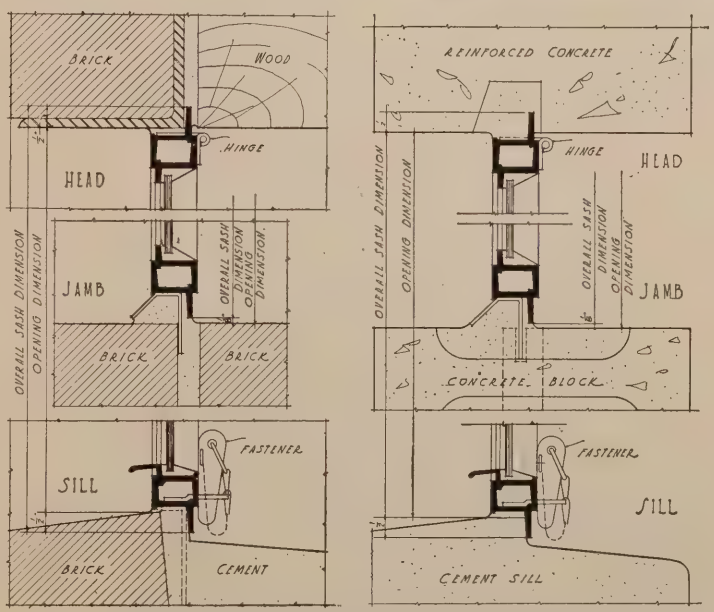
Convenient to Use

Made of solid bars of copper steel, electrically welded together, Lupton Basement Windows are rigid and never shrink, warp, nor rot. They open easily, close securely, and will last as long as the walls. As easy to set as a wood window, they come complete with hardware and one coat of oven-dried paint. They make a weather-tight, economical job in any type of construction.

Nature's great blessing—sunlight—will flood your home with cheer if you use steel windows. This is particularly true in the basement, where formerly the old, sticking, wood windows did little to dispel the gloom.

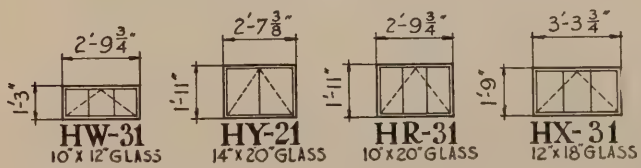


Lupton Basement Window

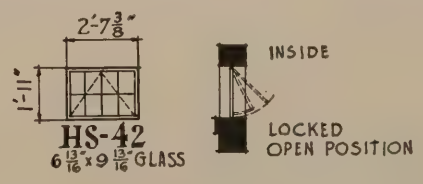


Typical Setting Details in Brick and Concrete Block Walls

"STANDARD" - BASEMENT WINDOWS



"SECURITY" - BASEMENT WINDOW



For further details and literature, write to: **DAVID LUPTON'S SONS COMPANY, Philadelphia, Pa.**

Truscon Home Building Products

Manufactured by

TRUSCON STEEL COMPANY

Youngstown, Ohio

BRANCH OFFICES IN THE FOLLOWING CITIES

Albany, N. Y., 100 State St.
Atlanta, Ga., 702 Wynne Claughton Bldg.
Baltimore, Md., 406 Builders Exchange
Birmingham, Ala., 513 North 21st Street
Boston, Mass., 147 Summer St., No. 9.
Buffalo, N. Y., 726 Genesee Bldg.
Chicago, Ill., 165 E. Erie St.
Cincinnati, O., 617 Provident Bk. Bldg.
Cleveland, O., 4614 Prospect Ave.
Columbus, O., 1000-04 Ferris
Dallas, Tex., 115 Field St.
Dayton, O., 110 S. Wayne St.
Denver, Col., 2941 Walnut St.
Des Moines, Ia., 417 Hubbel Bldg.
Detroit, Mich., 615 Wayne St.
El Paso, Tex., 1701 Olive St.
Erie, Pa., 801 Palace Hardware Bldg.
Ft. Wayne, Ind., c/o Old Ft. Supply Co.
Greensboro, N. C., 1005 Jeferson Std. Life Bldg.
Harrisburgh, Pa., 3025 Derry St.
Houston, Tex., 312 Chronicle Bldg.
Huntington, W. Va., 804 Robson Prichard Bldg.
Indianapolis, Ind., 241 E. Ohio St.
Jacksonville, Fla., 215 Professional Bldg.
Kansas City, Mo., 611 Bryant Bldg.
Los Angeles, Calif., 1480 E. Fourth St.
Louisville, Ky., 621 Marion E. Taylor Bldg.
Memphis, Tenn., 801 Columbian Mut. Tower Bldg.
Miami, Fla., 236 Columbia Bldg.
Milwaukee, Wis., 1200 Straus Bldg.
Minneapolis, Minn., 601 Metropolitan Bank Bldg.
Nashville, Tenn., 217 Vendome Bldg.
Newark, N. J., 38 Clinton St.
New Haven, Conn., 42 Church St.
New Orleans, La., 605 Carondelet Bldg.
New York, N. Y., 31 Union Sq.
Norfolk, Va., 526-9 Dickson Bldg.
Oakland, Calif., 316 Hobart St.
Oklahoma City, Okla., 319 Magnolia Bldg.
Omaha, Nebr., 402 Arthur Bldg.
Philadelphia, Pa., 1505 Race St.
Pittsburgh, Pa., 2541 Oliver Bldg.
Portland, Ore., 463 Kerby St.
Providence, R. I., 412 Bank of Commerce Bldg.
Roswell, N. M., County Engineer's Office
St. Louis, Mo., 1637 Syndicate Trust Bldg.
Salt Lake City, Utah, 422 McIntyre Bldg.
San Antonio, Texas, 908 Travis Bldg.
San Francisco, Calif., 709 Mission St.
Scranton, Pa., 620 Wheeler Ave.
Seattle, Wash., 825 Seaboard Bldg.
South Bend, Ind., 221 Christman Bldg.
Springfield, Mass., 476 Main St.
Syracuse, N. Y., 440 Gurney Bldg.
Tampa, Fla., 19 Petteway Bldg.
Toledo, O., 312 Richardson Bldg.
Washington, D. C., 424 Transportation Bldg.

TRUSCON WAREHOUSES: Birmingham, Ala.; Boston, Mass.; Buffalo, N. Y.; Chicago, Ill.; Cincinnati, Ohio; Cleveland, Ohio; Dallas, Texas; Detroit, Mich.; El Paso, Texas; Indianapolis, Ind.; Jacksonville, Fla.; Kansas City, Mo.; Los Angeles, Calif.; Milwaukee, Wis.; New York, N. Y.; Norfolk, Va.; Philadelphia, Pa.; Portland, Ore.; San Francisco, Calif.; St. Louis, Mo.; St. Paul, Minn.

The Truscon Laboratories, Detroit, Mich.

Home Building Products

Copper Steel Standard Casements and Basement Windows, Pivoted Steel Sash, Standard Lintels, Steel Doors and Frames, 1-A Hy-Rib Metal Lath, Diamond Metal Lath, Expanded Metal and Double Bond Corner Beads, Wire Mesh, Curb Bars, Edge Protectors and Steel Joists.

TRUSCON
HOME BUILDING PRODUCTS

Other Truscon Products

All types of Steel Windows, Mechanical Operators, ¾" Hy-Rib Metal Lath, Reinforcing Steel for concrete. Steel Poles, Steel Boxes, Platforms and Flasks, Pressed Steel Parts, Ferrodeck Roofs, Trusses, Contraction Joints, Expanded Metal, Complete Steel Buildings. Waterproofing and Technical Paints.

Truscon Copper Steel Standard Casements



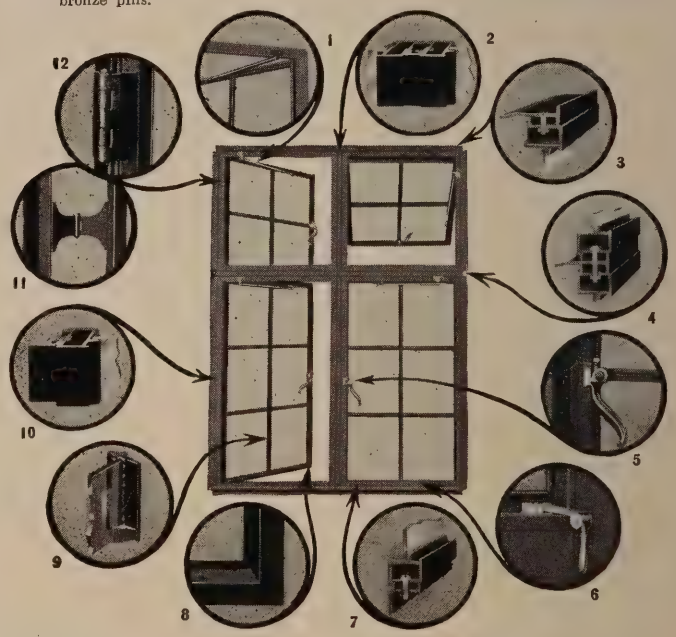
Five Standard Units

The traditional beauty of the casement window is enhanced in the Truscon Copper Steel Casement by the added grace of its steel construction. But steel brings other advantages. The Truscon Casement is fireproof, permanent and weathertight to wind, snow and rain. Casements open outward and thus eliminate interference with drapes. They afford 100% ventilation, open and close easily, do not warp or stick and they are easily screened. They can be installed in any kind of weather by unskilled labor. And their cost is virtually the same as that of wooden windows. They are carefully inspected and painted with a priming coat before leaving the factory. Four standard sizes make them adaptable to any type of opening. Their enormous demand is a tribute to Truscon manufacturing principles.

Sizes of Single Units

Type 22	Type 23	Type 24	Type 25
2 Lights High	3 Lights High	4 Lights High	5 Lights High
10″x12″ Glass	10″x12″ Glass	10″x12″ Glass	10″x12″ Glass
1′ 11⅜″ Wide	1′ 11⅜″ Wide	1′ 11⅜″ Wide	1′ 11⅜″ Wide
2′0″ High	2′0″ High	4′4⅜″ High	5′5⅛″ High

1. Adjustable Friction Stay holds the casement open at any desired angle. This friction stay may be attached to top or bottom of casement. Bronze or Black finish.
2. Vertical mullion. This simple mullion provides a positive weather-tight connection.
3. Continuous Head Bar showing shape and proper position when attached. Its practical, sturdy construction insures proper weathering.
4. Transom Bar used when two or more units are combined, one above the other.
5. The Cam Handles come already assembled. Furnished in malleable iron, either right or left, bronze handles if desired.
6. The "Flexo-Stay" Adjuster, an exclusive Truscon development, for use under screen, operates the casement from the inside. Furnished if specified. Bronze or Black finish.
7. Sill Bar section, strong and weathertight.
8. Corners of Sash of every Truscon casemen are solidly welded and ground smooth. This gives strength and durability.
9. Spring Wire Glazing Clip. These clips hold all glass firmly in place, as well as bed and face putty. Outside gazing gives neat interior finish.
10. Jamb Angle provides secure anchorage into basic construction.
11. Cleaning Hinges are supplied if desired, at slight additional cost.
12. Heavy Hinges are spot welded to frame and sash and fitted with removable bronze pins.



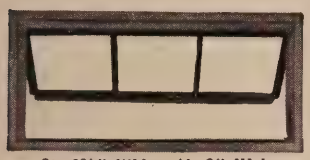
FOR METAL LATH INFORMATION SEE PAGES 89-90-91 ADVERTISING OF THE ASSOCIATED METAL LATH MANUFACTURERS

For further details and literature, write to: **TRUSCON STEEL COMPANY, Youngstown, Ohio** DEALERS EVERYWHERE

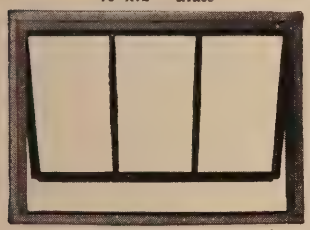
Truscon Home Building Products (continued)

Truscon Copper Steel Basement Windows

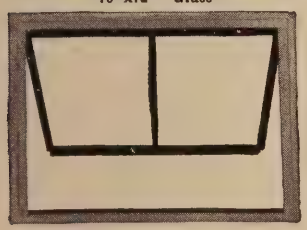
Truscon Steel Basement Windows are made in 3 sizes from solid rolled steel sections and are adaptable for daylighting basements in any type of residential building. They are trim looking and attractive in appearance. They cannot stick or warp. They are always easy to open and close. They lock automatically. Double contact weathering effectively keeps out rain, snow and wind. They are fireproof and indestructible, simple to install and easy to screen.



2'—9¾" Wide, 1'—3" High
10"x12" Glass



2'—9¾" Wide, 1'—11" High
10"x12" Glass

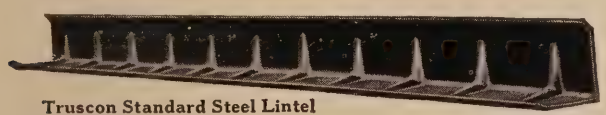


2'—7⅜" Wide, 1'—11" High
14"x20" Glass
Standard Units

These Windows give 50% to 80% more daylight from the same opening than wood, and on this basis cost 30% to 50% less than wood. In making comparisons remember that Truscon Basement Windows come complete with heavy hinges and automatic steel locks attached, while for wood windows you must add cost of frame, sash, hardware, labor of fitting and priming coat of paint. They actually cost as little as wood. Truscon Basement Windows are stocked in warehouse in principal cities and by hardware, lumber and building supply dealers everywhere.

Truscon Copper Steel Standard Lintels

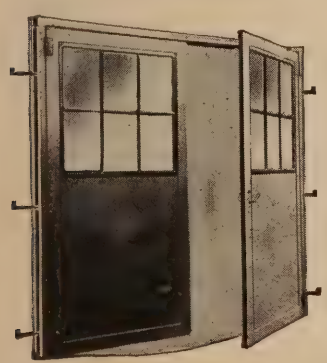
Economical, strong, durable and rust-resisting. Made in four standard stock lengths. Simple lintels for veneer construction. Two lintels bolted back to back for solid masonry. Stock sizes: 2'6", 3'6", 4'6", 5'6".



Truscon Standard Steel Lintel

Truscon Standard Steel Doors and Frames

In every kind of building where doors must furnish fire protection and withstand hard usage, it is common sense economy to install Truscon Standard Steel Doors and Frames. They make doorways, for the first time really useful, convenient and safe.



Double Door

Truscon Steel Doors are available with sash or solid panels, in four standard stock sizes which can be used singly or in combination for door openings of different dimensions. The hardware equipment supplied with each unit converts the standardized door panels into either swing or sliding type of Truscon Steel Door as required.

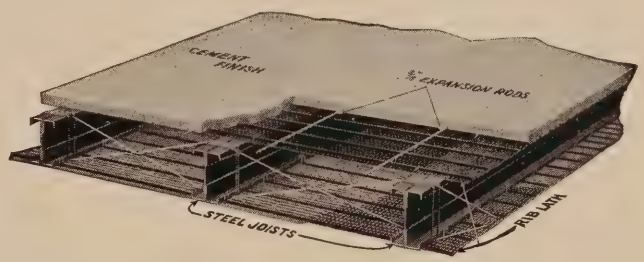
Truscon Standard Steel Doors are made of carefully formed steel sections, reinforced at the corners. The joints are electrically welded. They are easy to open and close and always fit snugly in the special Truscon door Frame because they will not warp, swell or get out of alignment.



Single Door

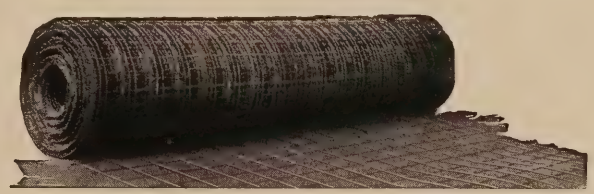
Truscon Steel Joists

Where light loads are carried on moderate spans, heavy fireproof construction is frequently excluded because of excessive cost. Truscon Steel Joist and Hy-Rib floor construction was developed to meet the demand for a practical economical and substantial fireproof construction applicable to these conditions.



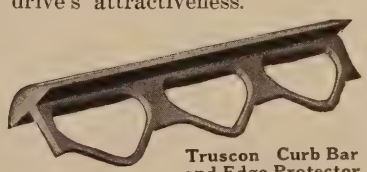
Truscon Wire Mesh in Rolls

Truscon Wire Mesh furnishes the proper reinforcing protection at economical cost for basement, porch and garage floors and for driveways. The steel mesh binds the concrete into an unbreakable unit mass that resists frost and weight.



Truscon Curb Bars

Truscon Curb Bars and Edge Protectors will protect the edges of the curb in the driveways and prevent unsightly breakage. These bars give the curb a neat, regular appearance which greatly enchances the drive's attractiveness.



Truscon Curb Bar and Edge Protector

TRUSCON HOME BUILDING PRODUCTS

FOR METAL LATH INFORMATION SEE PAGES 89-90-91 ADVERTISING OF THE ASSOCIATED METAL LATH MANUFACTURERS

"IDEAL" Steel Basement Windows

Manufactured by

WESTERN ARCHITECTURAL IRON COMPANY

211 W. Schiller St.

Chicago, Ill.

WHEN planning a home do not neglect the basement. Make it light, airy and full of sunshine by installing *Ideal* Steel Basement Windows, the most improved basement window on the market today. Picture a solid steel window that will not decay, splinter, warp or stick and swings freely at all times. A window of all welded solid construction that is positively weatherproof and durable. A window with a real latch and handle that draws the sash tightly in place so it will not rattle. A window that not only swings but can be lifted out as easily as you raise your arms. That is the *Ideal* solid steel basement window. With all these advantages they can be installed cheaper than wood windows and allow 50 to 75% more light, air and sunshine.

Ideal Steel Basement Windows are very attractive in design, improve the appearance of the home and are a real asset to the home owner. They are easy to install and fit any type of construction. Not only are they the perfect basement window but an ideal garage window as well.

DISTRIBUTORS:

New York, N. Y.	Dayton, O.
Chicago, Ill.	Indianapolis, Ind.
Philadelphia, Pa.	Pittsburg, Pa.
Cincinnati, O.	Newark, N. J.
Detroit, Mich.	Toledo, O.
St. Louis, Mo.	South Bend, Ind.
Cleveland, O.	Louisville, Ky.
Columbus, O.	Baltimore, Md.
Milwaukee, Wisc.	Washington, D. C.
Ft. Wayne, Ind.	

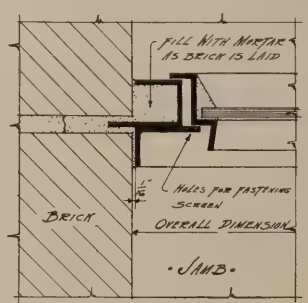


When you want to wash, paint or glaze them, just lift the sash out of the frame. Frames can be delivered and installed without sash as sash are interchangeable. This permits glazing of sash in warehouse for delivery when building is completed, if so desired. This is an exclusive *Ideal* feature.



Cam Latch and Handle:

An *Ideal* latch with cam action which draws sash tightly in place insuring weather tight contact. A real handle makes the operation of latch simple and easy.

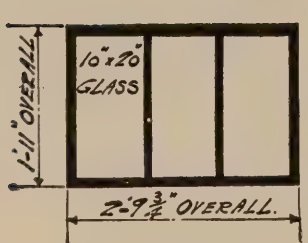


Detail of Jamb Construction:

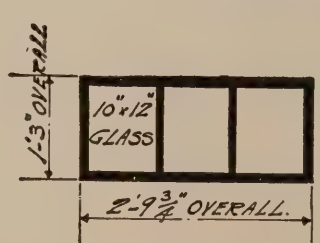
Masonry Guides Inside and Outside.

Inside guide eliminates danger of fouling sash when masonry is laid. Outside guide forms brick mould which completely covers mortar joint, making a neat and attractive installation.

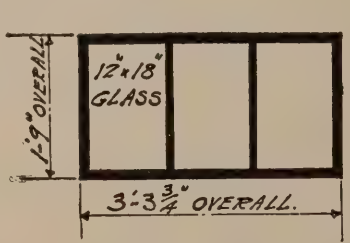
Sizes Carried in Stock



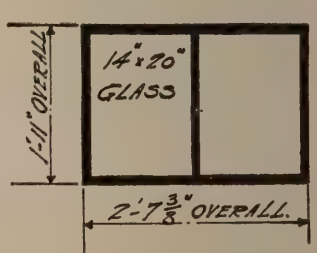
10x20—3 Light
Wall Opening 2'9¾"x1'11"



10x12—3 Light
Wall Opening 2'9¾"x1'3"



12x18—3 Light
Wall Opening 3'3¾"x1'9"



14x20—2 Light
Wall Opening 2'7⅜"x1'11"

For further details and literature, write to: **WESTERN ARCHITECTURAL IRON CO.** 211-233 West Schiller St. CHICAGO

WIN-DOR IMPROVED HARDWARE

Manufactured by

THE CASEMENT HARDWARE CO.

(Improved Hardware for Operating Out-Swing Casement Windows)

EASTERN OFFICE
25 W. 45th Street
New York City

GENERAL SALES OFFICE
230 East Ohio Street
Chicago, Ill.

WESTERN OFFICE
417 Market Street
San Francisco, Calif.

Win-Dor
TRADE MARK

Products

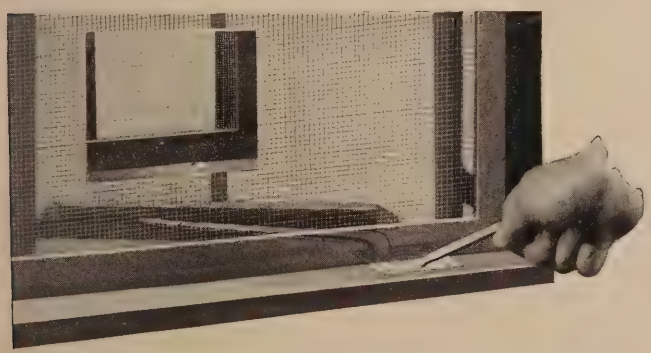
Improved OPERATORS for control of out-swung casements from inside of screens and storm sash; also for side hung overhead casements. Also automatic locking STAYS for out-swung casements and center-pivoted sash.

All products are sold under Win-Dor trade-mark and guarantee. Special types and trade names: NEW STANDARD SURFACE and FLUSH TYPES, and "BULLDOG" TYPE operators.

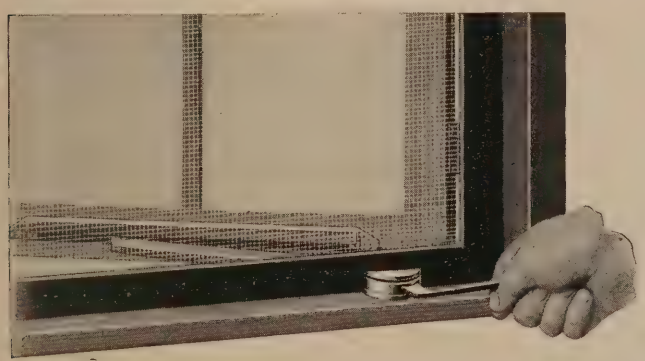
Slogan

"Casement Hardware Headquarters for Twenty Years"

General Advantages of Win-Dor Controlled Casements



Both New-Standard Win-Dor Operators, No. 7 (above) and Flush Type Win-Dor Operators No. 24-B (below) open and close casements by a simple, quick and easy swing of the handle to right or left. A slight downward pressure on the handle releases the automatic catch and permits swinging; when window has reached the desired position and pressure on the handle is released, the catch automatically locks fast and rattle proof. When not in use the removable handle may be hung on the window frame behind the curtains, as there is a hole in each handle provided for that purpose. One handle to each room is generally considered adequate. No. 7 also made for permanent attachment of handles.



Notice the insert in the illustration above. It shows that the operator is practically invisible when not in use. This type of Win-Dor Operator is especially suited for use with metal framed screens.

Special Features of Win-Dor Operators

(1) Simple Mechanism. (2) Fewest parts. (3) Neat appearance. (4) Long life. (5) Lowest first cost when material and permanent efficiency are considered.

Applicability

Win-Dor operators are easily applied to new and old wood sash and to most metal casements on new work. Arrangements must be made for installations on metal sash before contracts are let.

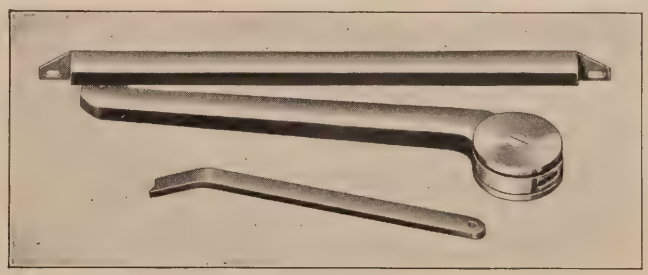
Availability

Win-Dor Casement devices are sold through hardware dealers except for certain makes of steel casements where they are furnished through the manufacturer. Write home office or nearest branch for name of local representative or dealer.

New Improvements

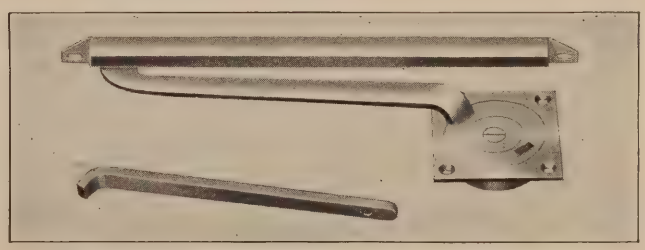
During the past year we have installed new equipment of the highest efficiency. This enables us to reduce the cost of operators one-third and it is now possible to install them on any structure using windows. These savings are made hand in hand with greatly improved quality.

Types



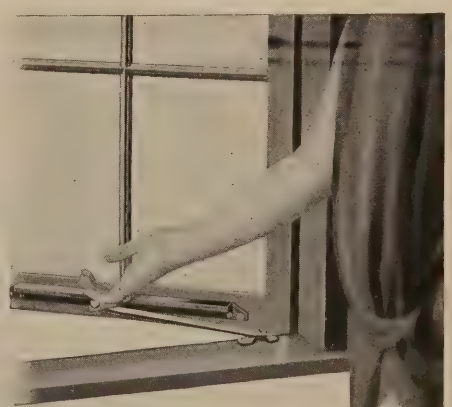
No. 7.—Win-Dor New Standard—Wrought steel, parkerized (rust resisting) dull black finish. Takes paint readily. Shipping weight per dozen, 20 lbs.

No 6.—Construction same as No. 7, but all solid brass. Dull brass or bronze finish. All other hardware finishes on order. Handle No. 71. Detachable for Nos 7 and 6, or may be permanently attached if desired.



No. 24B.—Material all cast bronze and brass. Fixed right and left hands. Works in 1¾ inch to 3 inch between screen and sash (with Fenestra and other offset hinges should be not more than 2½ inch). All other hardware finishes on order. Shipping weight per dozen 30 lbs. No. 241—detached handle, dull brass. Handle No. 241—standard detachable for No. 24B—Cold rolled steel, plated.

Win-Dor Stays



To operate the Win-Dor Stay simply lift up slightly on finger lift. This releases the automatic catch and permits the window to be swung to any desired position without using both hands. There it is held firm by the catch, which operates automatically when the finger lift is released.

The Win-Dor Stay is not a substitute for operators but is the most effective equipment where the use of screens is not imperative, or where first cost may dictate the simpest fixtures, with provison for subsequent change to operators.

Advantages: Positive locking. Requires no adjustment either when installed or later. No danger of sash blowing about as when friction fails. Eliminates strain on hinges. Easier to operate—no resistance to pull or push against, and saves reaching out to fastener handle.

No. 91—Win-Dor Auto-Stay—steel and iron, parkerized or sherardized.

No. 92—Construction same as No. 91, but all solid brass. Dull brass or bronze finish. All other finishes on order. Assembled right and left hands, but may be reversed when necessary. Shipping weight, per dozen, 12 lbs.

For further details and literature, write to: THE CASEMENT HARDWARE CO., 230 E. Ohio St., Chicago

Monarch Casement Hardware

Manufactured By

MONARCH METAL PRODUCTS CO.,

5020 Penrose Street
St. Louis, Mo.

DISTRICT SALES OFFICES

Atlanta, Ga.
Chicago, Ill.
Cleveland, Ohio.
Dallas, Texas.
Detroit, Mich.
Indianapolis, Ind.
Los Angeles, Cal.
New York, N. Y.
Philadelphia, Pa.
Portland, Ore.
San Francisco, Cal.
Tampa, Fla.

Products

Casement Hardware including:

- Control Lock
- Automatic Stay
- Casement Check
- Surface Bolt

For Metal Weather Strips see page 291.

TRADE MARK

Features of Monarch Casement Hardware

1. **Simple in design.**
2. **Neat in appearance.**
3. **Noiseless, as there are no gears, ratchets or keys.**

Service

Our representatives will be glad to call and demonstrate samples.

Monarch Casement Hardware is sold by all leading dealers.

Literature

Write for our Manual of casement hardware detail. This Manual will give you all necessary information showing application of Monarch Casement Hardware.

Monarch Control Lock

The Control Lock for the outswinging casement window will permit the operation of the sash without raising the inside screen. See illustration.

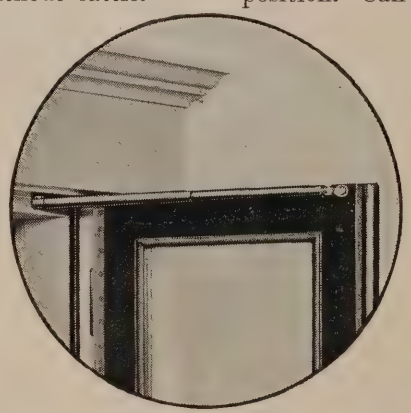
It can be used on top of the stool as well as underneath and will lock the sash securely without rattle.

Monarch Control Locks have no gears, ratchets or keys to become out of order and rattle.

This hardware is made of brass and steel and can be furnished in any finish desired.

Monarch Automatic Stay

For inswinging or outswinging casements, transoms, pivoted windows and doors. It is adjustable and can be adjusted to secure the necessary friction by simply turning the outer tube to right or left, depending on the amount of friction required to hold the sash in position. Can be used on head or sill with equal results. Requires but ¾" space. Made in solid brass only and furnished in any finish desired.



MONARCH CASEMENT STAY
Applied at Head of Window.

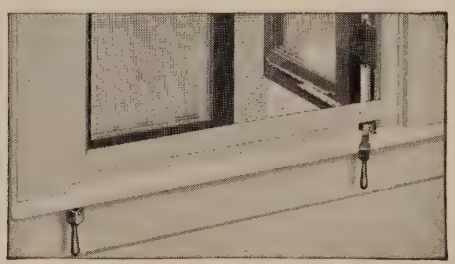
Monarch Surface Bolt

The Monarch Surface Bolt can be used on casement windows, doors or any hinged opening.

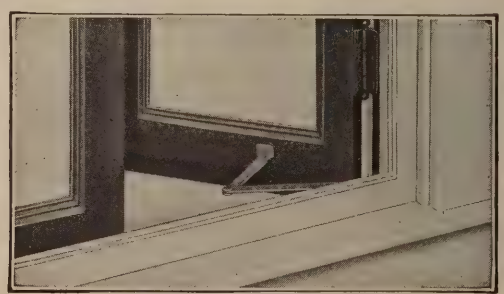
It is made of brass and steel, size ½ and ⅜ inches.

Monarch Casement Check

For in or outswinging casements, transoms, window seats, chests, etc. It is adjustable and can be adjusted by turning the screw in the pivot plate. Friction is caused by copper and steel discs, which makes the friction permanent. Made in brass and steel.



MONARCH CONTROL LOCK
Applied on Top and Below Stool, with Screen in Place.



MONARCH CASEMENT CHECK
Applied on Sill of Casement Window.

"AIR-WAY" Multifold Window Hardware

Made By

Cable Address
"Richwilco Aurora"

RICHARDS-WILCOX MFG. COMPANY
AURORA, ILLINOIS

Canadian Factory
London, Ontario

BRANCH OFFICES

New York City, 85 Walker Street
Chicago, 166-168 West Lake Street
Philadelphia, 507 Arch Street
Boston, 124-126 Pearl Street
Cleveland, 459 Hippodrome Annex
Knasas City, 206 Reliance Bldg.
Cincinnati, 512 Provident Bank Bldg.
St. Louis, 2006 Locust Street
Indianapolis, 1939 N. Meridian Street
Minneapolis, 321 Plymouth Bldg.
Los Angeles, 500-501 Hibernian Bldg.
San Francisco, 626 Underwood Bldg.
Omaha, 202-203 City National Bank
Seattle, Wash., 1214 Hoge Bldg.
New Orleans, 616 Hibernia Bldg.
Detroit, 705 Donovan Bldg.

Richards-Wilcox Canadian Co., Ltd., London, Ont., Winnipeg, Montreal.

Products

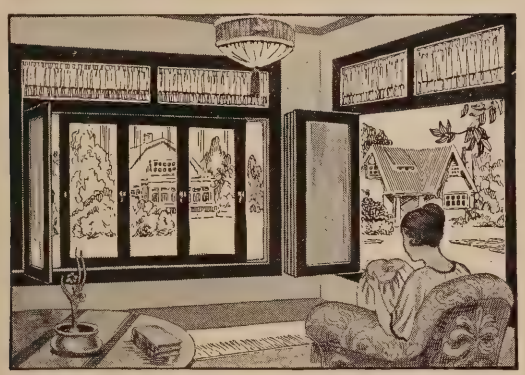
AiR-Way Multifold Window Hardware, Garage Door Equipment, Vanishing House Door Hardware, Garage Door Bolts, locks and floor guides, Builders Brackets and Hardware Specialties. For Garage Hardware see pages 266-67.

Where Used

The AiR-Way Multifold Window Hardware is not only desirable for the sun parlor, sleeping porch, bed room and dining room, but for every room in the house; kitchen, living room or sewing room. This equipment is ideal not only for home, but for use in hotels, hospitals, sanatariums, club houses, dance halls and pavilions.

Special Features

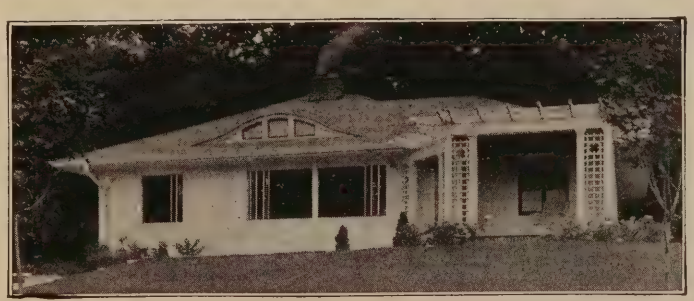
Multifold windows operating on "AiR-Way" Window Hardware open inside and do not interfere with screens which may be applied to "AiR-Way" equipped windows



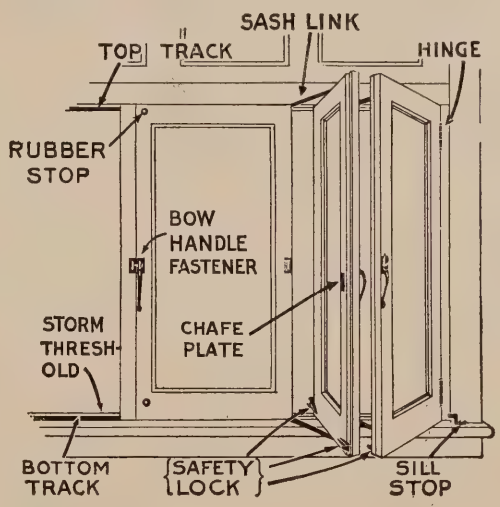
An AiR-Way equipped porch gives perfect control of ventilation at all times.

in the same manner as to ordinary windows operating vertically. Wind and draft will not blow sash equipped with "AiR-Way" hardware, as they stand inmovable in any position, open or closed, without locks or holders.

"AiR-Way" Window Hardware gives opportunity to throw open the entire window frame; or one sash at any particular point in the string of sash or any number of sash desired. The windows may be constructed with stationary mullion, or moving split mullion, part of the sash moving to the right and part to the left; or they may be arranged to move all in one direction if openings are not too large. When wide open the sash fold together at an angle against the casing at the edge of the window, leaving partically all of the window opening clear of obstruction.



AiR-Way may be applied not only to sun parlors and sleeping porches, but to any room in the home.



Showing how and where the AiR-Way hardware is applied.

Furnished in Complete Sets

This hardware is furnished in complete sets for series of sash from 2-10 in an opening. In the larger sized openings, where four or more sash are used, it is generally advisable to slide the sash to both sides of the opening.

For instance in a ten sash installation five of the sash will fold back to each side of the opening. The maximum width of a ten sash opening is 16'6" wide.

Service

The Richards Wilcox Manufacturing Company will furnish to the mill making the sash, a set of blueprints, showing exactly how they should be constructed. They also pack with each set of hardware, very complete and specific instructions showing how to properly install this hardware.

A special catalog giving detailed information has been prepared and will be sent to anyone writing for a copy.

For further details and literature, write to: **RICHARDS-WILCOX MFG. COMPANY, Aurora, Illinois**

Whitco Hardware for Casement Sash and Transoms

Made by

VINCENT WHITNEY COMPANY

EASTERN OFFICES:
636-645 Mass. Trust Bldg.,
Boston, Mass.

CASEMENT WHITCO HARDWARE

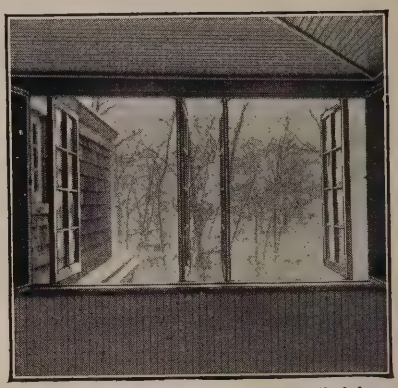
WESTERN OFFICES:
365 Market Street,
San Francisco, Calif.



Whitco-equipped casements insure perfect ventilation whichever way the wind blows.



Whitco makes it easy and safe to clean outside of casement from within the room



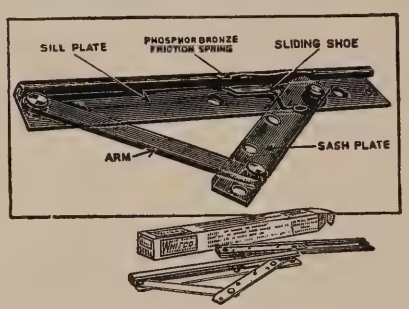
Any number of sash may be installed in a wide opening without mullions.

Products:

WHITCO Hardware for Casements and Transoms.
WHITCO Sash Operators.
WHITCO Sash Fasteners.

WHITCO—"The Easy Hardware"

Whitco is a simple, self-contained unit that takes the place of both butts and adjusters for swinging and controlling casement and transoms.



It makes such effective use of the principles of leverage and friction that it not only assures a perfectly operating sash at all times, but it holds the sash in any position, in any wind without rattle.

Brass and Rust-Proofed Steel

Whitco is made in solid brass and in rust-proofed steel, thus giving a selection to meet climatic conditions as they may exist in various parts of the country.

Meets Any Installation

This hardware is easily and quickly applied to single sash, pairs of sash or to multiple sash in wide openings without mullions. It may be used on either old or new sash, to swing the windows "in" or "out."

One Size Fits All Sash

One size fits all casements up to 30 in. in width, or all transoms up to 20 in. in height. For transoms of greater height Whitco may be obtained in special sizes.

A set, the equipment for one casement sash or transom, consists of two pieces, one for the top and one for the bottom of the casement, or one for each side of the transom. These pieces are identical except that one is the reverse of the other.

No Lefts or Rights

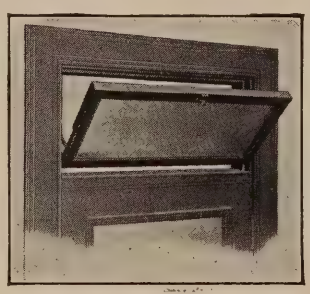
There are no "lefts" or "rights". Whether the sash is to swing to the left or to the right determines which piece goes at the top and which piece goes at the bottom.

No Special Sash or Frame Detail

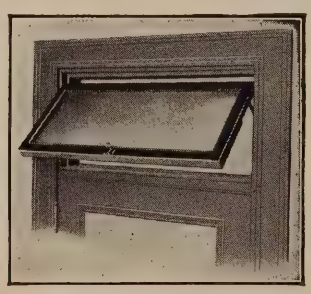
With the exception of the seldom-used "in-swinging" sash, no special sash or frame detail is required. The only fitting needed is a small housing at the top and bottom of each sash, which a carpenter can make with a chisel (see next page); otherwise a screwdriver is the only tool he uses in making an installation.

No Special Hardware Finishes

The fact that Whitco, when installed, is entirely concealed, obviates the need of considering hardware finishes. In fact, the only specification a dealer needs is the number of sash for any job. Screws are furnished with the hardware.



Whitco-equipped transom swinging in from top.



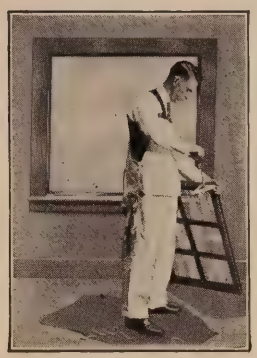
Whitco-equipped transom swinging either in or out from bottom.

Ventilation both above and below transom.

For further details and literature, write to: **VINCENT WHITNEY CO.,** 636-645 Mass. Trust Bldg., Boston, Mass. or 365 Market Street, San Francisco, Calif.



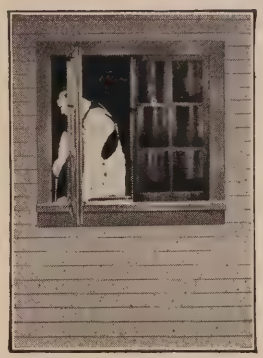
After the Carpenter has housed Whitco into the top and bottom of the sash.



Secured the hardware in place with four screws each at top and bottom.



Turned the Sill Plate at right angles to the sash.



He sets the sash in the opening and screws the sill plate to header and sill.



A perfectly operating sash, fitted, equipped and installed in less than thirty minutes.

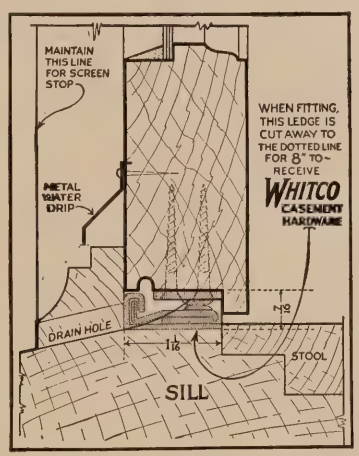
Easy to Install.

Whitco Hardware is simple and inexpensive to install. The average carpenter should be able to fit a casement sash or transom to an opening, equip it with Whitco and install it complete and in proper working order in less than thirty minutes.

The little "movie" shows each step, and the directions packed with each set of hardware give all the information needed for any installation of an out-swinging casement.

In-Swinging Casements.

Whitco, on out-swinging casements, requires no special detail. For in-swinging casements, where a weather-tight result is desired, a special detail is required at the sill. The accompanying sketch is a practical suggestion as to how this may be taken care of.



Suggestion for Stool Detail for In-Swinging Casement.

Screens.

The question of screens, heretofore regarded as militating against the use of casements, is no problem when Whitco Hardware is used. In the case of single sash and pairs of sash, it is usual to hinge the screens to swing in, either at the top or side, or to provide for vertically double sliding screens. With multiple sash in wide openings without mullions, the screens may be hinged to swing in, or arranged to slide horizontally. Screen frames may be wood or metal. When stationary screens are desired, use Whitco Sash Operators, as illustrated and described on this page.



Detail Showing Installation of Whitco Operator and Whitco Sash Fastener

The sash plate, extending across the joint between the stile and the rail of the sash, reinforces the sash at its weakest point and prevents sag.

All screws used in installing WHITCO to casement or transom are set in at right angles to the line of strain, instead of in line with it, thus making a stronger and more dependable installation.

The relation between the leverage and the friction of Whitco Hardware is such that a slight force applied to the edge of the sash farthest away from the jamb causes the sash to open and close easily, yet, when the force is distributed, as when the wind blows against the entire surface of an open sash, the sash is not moved.

Whitco Sash Operators.

The Whitco Operator, for opening and closing the sash without moving the screen, is made of solid brass, and is so fashioned that it swings back along the interior frame of the window when the sash is closed, and is practically concealed by the screen frame when the sash is open.

An aperture about the thickness of a saw cut, at the bottom of the screen, is all the provision that has to be made for the operator. A fabric strip for covering this aperture is provided with each operator. (See illustration for details.)

Whitco Sash Fasteners.

This simple locking device is designed to set into the jamb about midway up the sash so as to exert an evenly distributed pull. The lock is operated by means of a lever, mounted on the window frame, and working through a shaft extending into and engaging the lock. The sash may be locked and unlocked without moving the screen. (See illustration for details.)

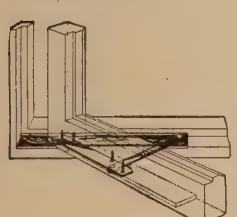
General Advantages.

The fact that a sash, Whitco equipped, when opened, leaves the jamb for a distance of 5 inches, makes it easy and safe to clean the outside of the window within the room.

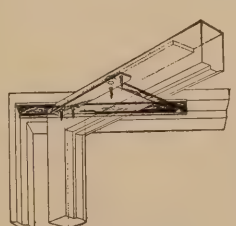
This also affords much more perfect ventilation.

General Information.

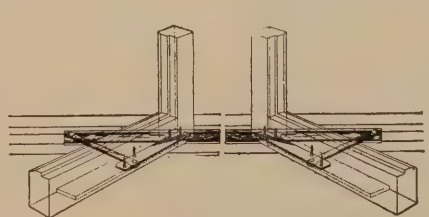
Whitco Products are sold individually. Each item is packaged separately. The two pieces of Whitco Hardware comprising a set, the equipment for one casement sash or transom, are packed together in a neat carton 1 in. x 1 in. x 8 in.



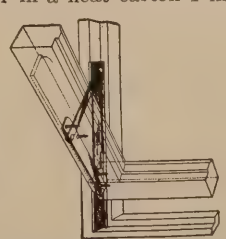
Whitco applied at bottom of casement swinging out.



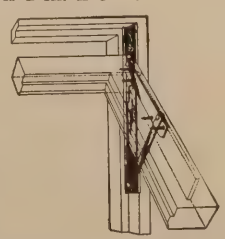
Whitco applied at top of casement swinging out.



Whitco applied at bottom of adjoining pair of multiple sash.



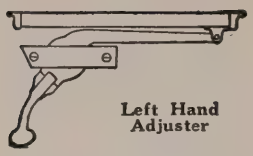
Whitco at left end of transom swinging in from top.



Whitco at right end of transom swinging in from bottom.

For further details and literature, write to: VINCENT WHITNEY CO., 636-645 Mass. Trust Bldg., Boston, Mass. or 365 Market Street, San Francisco, Calif.

Wilkins Casement Adjuster

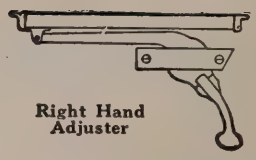


Left Hand Adjuster

Made by

GEORGE LESTER WILKINS

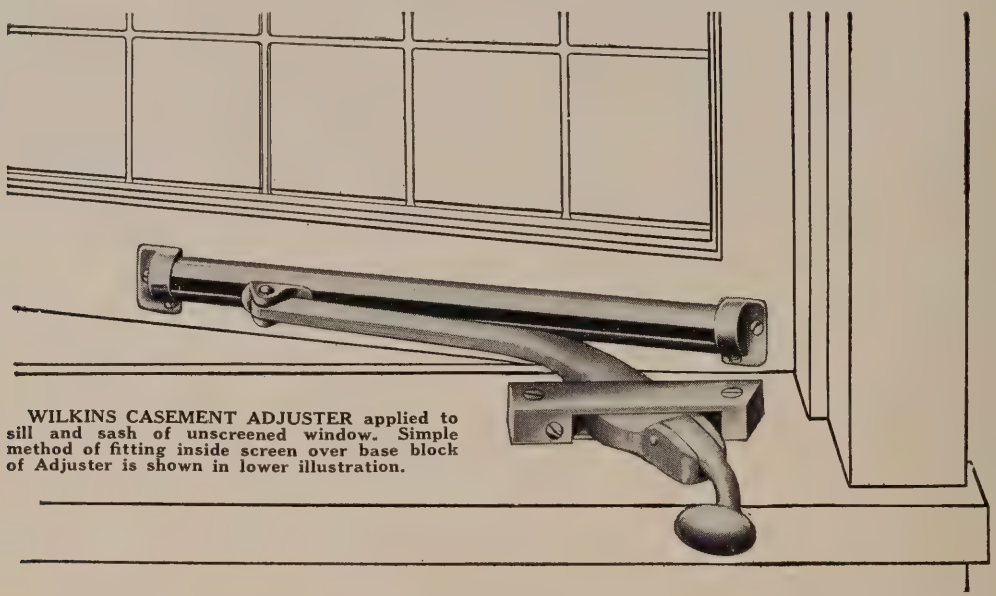
1773 Lunt Ave., Chicago



Right Hand Adjuster

15 Years of Satisfactory Service

The fact that the Wilkins Casement Adjuster has been in use for 15 years is the best proof that it fully meets the demand for a casement opening and closing mechanism that is easy to apply to any window, that is simple and positive in operation, locks window in any position, is neat in appearance, everlasting in wear, and (most important of all) that operates on screened windows without requiring the screen to be opened whenever it is desired to open or close the casement. All of these advantages are possessed by the Wilkins Casement Adjuster to a greater extent than by other devices for the same purpose.



WILKINS CASEMENT ADJUSTER applied to sill and sash of unscreened window. Simple method of fitting inside screen over base block of Adjuster is shown in lower illustration.

How Attached

The Wilkins Casement Adjuster can be attached to any window, wood or metal, new or old, and easily. The Adjuster is self-contained, there being no loose parts to be lost. Simply secure the base block firmly on the window sill with two large screws and the guide tube to the sash with four small screws and the job is done.

Simple in Operation

When the handle of the Adjuster is in the horizontal position shown in illustration the Casement is locked, whether open or closed, or at any intermediate angle. To release the locking mechanism it is merely necessary to raise handle and the Adjuster may then be operated to open or close casement by moving handle to the right or left. On releasing handle it falls again to the horizontal position and locks casement.

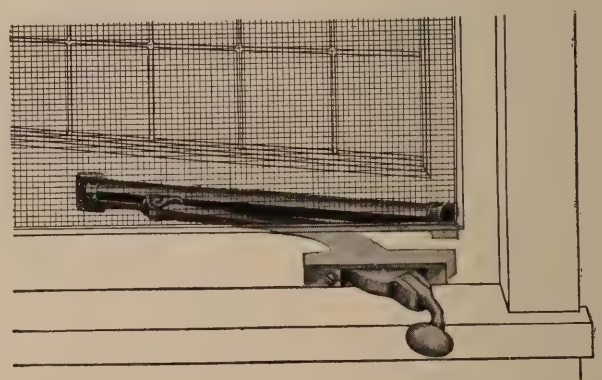
Everlasting in Wear

All parts of the Wilkins Casement Adjuster subject to wear (such as the locking mechanism) are made of case hardened steel. The exposed portions are fabricated of the best manganese bronze which is not only strong and proof against corrosion, but the finishes are extremely impressive in appearance, and none of the moving parts can in any way mar or scratch them. Naturally the use of such expensive materials and great care in construction result in a somewhat higher manufacturing cost, but as we are constantly receiving orders for Wilkins Casement Adjusters to replace cheaper devices originally installed it would seem true economy to use the best in the first place, particularly as the difference in cost between the best and the cheapest will amount to only a small sum for each window.

For kitchen and attic casements, sleeping porch windows, and for modest homes not requiring as fine a Casement Adjuster as the Wilkins, we make a cheaper adjuster of malleable iron. This is known as the Security Casement Adjuster. While not the equal of the Wilkins, we can truthfully say of the Security that it is superior in design and construction to any other adjuster selling at an equally low price.

Styles, Sizes and Finishes

The Wilkins Casement Adjusters are furnished in both right hand and left hand, and styles for wide or narrow sills in any desired finish and for any size of casement. Standard sizes are designed for sash not less than 12 inches wide nor more than 36 inches. The Security is made both right and left hand, in many finishes and in one size only, suitable for sash 15 to 36 inches wide. Full particulars with detail drawings and prices will be furnished promptly on request.



For further details and literature, write to: **GEORGE LESTER WILKINS,** 1773 Lunt Ave., Chicago, Ill.

The Mailo-Box—The Modern Built-In Mail Box

Made by

PENN-GREG MANUFACTURING CO.

809-11 University Ave., St. Paul, Minn.

Products:

Mailo-Box—a complete unit to be installed in the wall of a house, either during construction or after completion, for the proper reception and safeguarding of mail. Also make a complete line of Mail Boxes for apartment houses. Special mail boxes built to order.

Description:

The Mailo-Box is a complete unit ready for installation in any kind of a house wall and easily adjustable to all thicknesses of wall, without regard to material used. Its sliding throat adjustment eliminates any fitting on the job, making installation simple and perfect. The mail reception slot and shutter is the only part of the box visible from outside of house. This casting is made with bell button and name plate on some models. On inside of house only the entrance door to box is visible, the box itself being concealed in the wall.



Style C1-C2
A popular model for brick exteriors, or stucco or clapboards, finished in dark colors. Price $8.50

Advantages:

Thoroughly meets the United States Post Office Department regulation requiring a receptacle to insure delivery of mail at residences, because it gives the postman a convenient and absolutely safe place in which to deposit letters, magazines and newspapers. Eliminates the old style mail box.

It is thief-proof because all mail is inside and out of reach of wire or hook thieves. Children, or the curious, cannot handle it, examine it, or destroy it. Mail cannot blow away or be damaged by the elements.

Prevents an unsightly accumulation of unprotected mail during an absence from home.

(Trade Mark)
Patented Oct. 4, 1921, July 18, 1922 — Other Patents Pending.

Large enough to receive magazines and newspapers and keep them safe.

All mail is taken from the box inside the house. Does away with going outside the house for mail, particularly in inclement weather. Adds to the convenience and beauty of every home, and to personal comfort as well.

It is a permanent addition to the home. Takes only a short time to set in place and once installed it is there to stay. It will never have to be replaced.

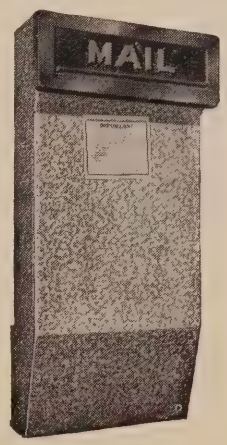
The first low cost is the only cost. There is no expense for upkeep because there is nothing to wear out or get out of order.

Types, Styles and Finishes

The Mailo-Box is made in two types, and several styles and finishes. The concealed portion is made of high grade galvanized iron with locked and soldered joints. Size of box in all but two styles (E and H) is 10 inches wide, 21 inches long and 3½ inches deep (from front to back). Large enough to take all newspapers and magazines.

Can Be Set in any Wall:

Mailo-Box is adjustable to any thickness of outside wall, regardless of material used. For frame or stucco walls it is adjustable from 3½ to 7 inches. For brick or brick veneer walls from 9½ to 14 inches. Can also be installed in homes already built.



Style E1-E2
For use where limited space does not permit use of larger sizes, like enclosed porches, etc. Price $4.75.



Inside Cabinet Door in natural finish, Oak or Birch. Solid brass mortise hinge and wood knob. Solid cast brass bronze door can be furnished at $5.00 net additional. This type door is used on all styles except "E" and "H".

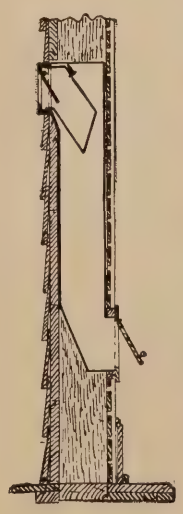
Made in 7 Styles, for Frame, Stucco, Brick and Stone Walls

A1-A2	Solid Cast Bronze, dull or polished finish.....	$12.00
	Name plate and bell button attached.	
C1-C2	Solid Cast Brass, dull or polished finish.....	$ 8.50
	For brick, stucco or clapboard exteriors in dark colors.	
D1-D2	Solid Cast Aluminum, dull finish.....	$ 7.50
	For stucco or clapboard exteriors in bright colors.	
E1-E2	Wrought Brass, brushed finish.....	$ 4.75
	Desirable where space is limited, like enclosed porches.	
Special E1-E2	Cast Aluminum, same as C.....	$ 6.50
Special E1-E2	Cast Brass, same as D.....	$ 7.50
F1-F2	Wrought Brass, dull or dull black finish.....	$ 6.50
	Very popular model for cottages, bungalows and enclosed porches.	
G1-G2	Solid Cast Aluminum, dull finish.....	$10.00
	Name plate and bell button attached.	
H	Solid Cast Brass or Aluminum:	
	Brass Face Plate.	$8.50
	Bell Button and Name Plate...	10.00
	Aluminum Face Plate	7.00
	Bell Button and Name Plate...	8.50
	For installation in cross or end walls. Limited space. Inside receiving door at either right or left.	

NOTE: Numeral "1" of style number is for Frame or Stucco Walls. Numeral "2" for Brick or Stone Walls. Storage Box (hidden in wall) is 10" wide x 21" long x 3½" deep (from front to back) on all styles but "E" (7½" wide x 16" long by 3½" deep and "H" (3½" wide x 18" deep x 18" high).
Solid Brass Cast inside door can be furnished for all styles but "E" and "H" at $4.00 additional. Aluminum door $3.50.



Cross Section of Mailo-Box showing how it is concealed in brick wall.



Cross Section of Mailo-Box showing how it is concealed in frame wall.



Postman deposits mail from outside—occupant gets it from box on inside and both are Sure that All mail will be received in good condition.

For further details and literature, write to: **PENN-GREG MANUFACTURING CO.** **809-11 University Ave. ST. PAUL, MINN.**

Knape & Vogt Modern Clothes Closet Fixtures

Made By

KNAPE & VOGT MFG. COMPANY

GRAND RAPIDS, MICHIGAN

Product

This company manufactures Extension Carriers for Clothes Closets which permit the neat hanging and storage of garments, making any individual garment instantly and conveniently available without disturbing other garments.

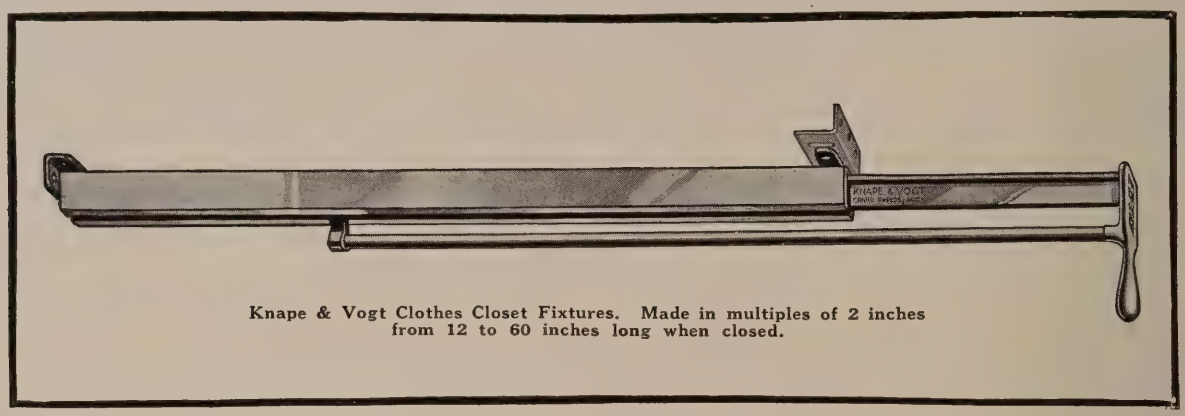
Where Used

Knape & Vogt Clothes Closet Fixtures are being extensively used in private residences and apartment houses, clubs, hotels, lodges, schools, offices, factories, stores, and in locker and cloak rooms of all kinds.

travels back and forth are built of full nickeled steel. The carrier rod operates smoothly and noiselessly, without friction, on roller bearings. It can be pulled out or pushed back into place with a mere touch of a finger. The necessary screws and brackets for installing are furnished.

Sizes

They are made in sizes to suit any depth of closet. Stock sizes, in multiples of two inches can be had from 12 to 60 long, when in closed position. Special lengths can be made to order.



Knape & Vogt Clothes Closet Fixtures. Made in multiples of 2 inches from 12 to 60 inches long when closed.

Advantages

Because the fixtures double closet capacity, closets can be built smaller—thus adding additional space to rooms without reducing the garment hanging space in closets. As the fixtures slide in and out of the closet a whole wardrobe can be instantly brought out into the light of a room, permitting easy examination or the selection of any individual garment without disturbing other garments. The method of hanging prevents crowding, wrinkling, sagging, tearing or soiling of garments. Builders and Realtors find that Knape & Vogt equipped closets add a strong sales argument for both new and old homes.

Construction

The sliding carrier rod and the support upon which it



To the left is the old clothes closet—a confusion of garments stretching out of shape and wrinkling.. Hard to get at the garment wanted.

Above, at right, is the modern clothes closet equipped with Knape & Vogt Fixtures—everything in a smooth, clean, sanitary condition—any garment instantly available by simply sliding the fixture out into the room.

How to Order

Simply measure depth of closet, locker or compartment to be fitted with Knape & Vogt Fixtures, and send us this measurement in inches.

Literature and Plans

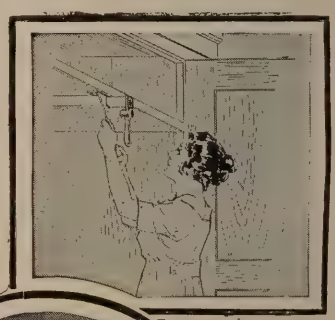
We are always glad to co-operate with contractors and builders in working out special installations, or by furnishing blue print plans of modern clothes closets, and interesting literature fully illustrating and describing them.

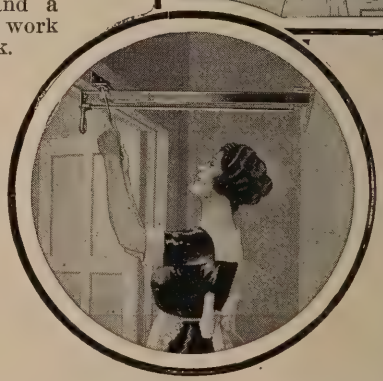
Easily Installed

The Knape & Vogt Clothes Closet Fixture is easily and quickly installed in any closet—old or new.

It can be fastened to the bottom of a shelf, as shown in the upper illustration, or attached to the door casing and back wall of closet as shown in lower illustration.

Anyone with a screw driver and a few minutes work can do the trick.





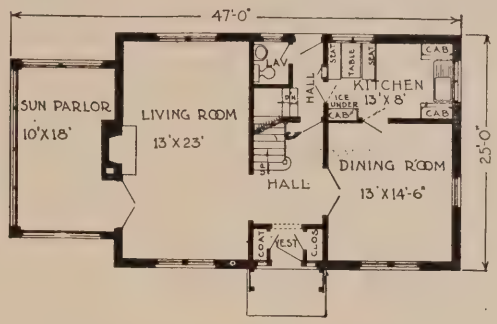
Low in Price

The first cost is low, the installation is a delightful convenience which adds greatly to the contractor's reputation for thorough, up-to-date work.

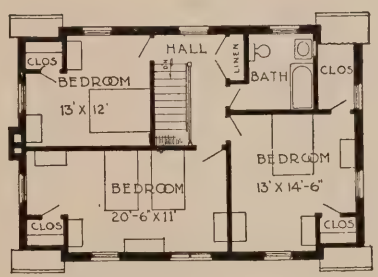
Prices	
14 Inch	$4.00
16 Inch	$4.30
18 Inch	$4.60
20 Inch	$4.90
22 Inch	$5.30
24 Inch	$5.50
26 Inch	$5.80
28 Inch	$6.10

For further details and literature, write to: **KNAPE & VOGT MFG. CO., Grand Rapids, Michigan**





First Floor Plan of the Park Ridge "Better Home"



Second Floor Plan of the Park Ridge "Better Home"

K-V Fixtures Used in the "Better Homes" Movement:

The charming home illustrated above was built at the corner of Arthur and Greenwood Avenues, Park Ridge, Illinois, as a contribution to the "Better Homes" movement, by the Chicago Federation of Women's Organizations. Mrs. Edward S. Bailey, President of the Chicago Federation of Women's Organizations; Mrs. H. W. Hartough, local Chairman, Better Homes in America; Miss Elizabeth Backer, Chicago and Cook County Commissioner Girl Scouts, assisted by Boy Scout and Girl Scout troops, broke ground for "Home Sweet Home" before a distinguished audience on April 11, 1925. The corner stone was laid during "Better Homes Week," May 10th to 17th.

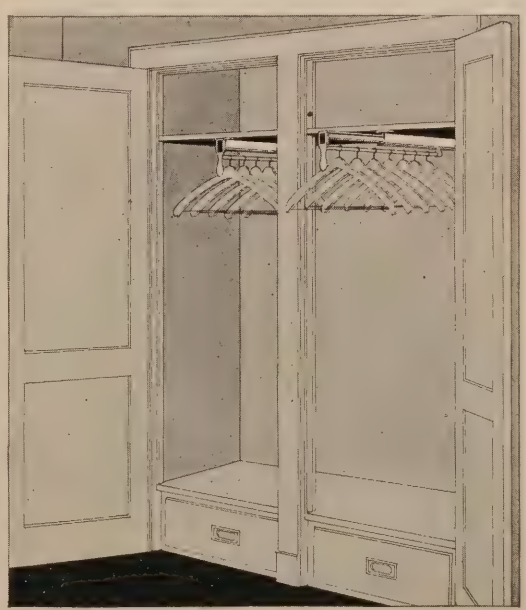
Five sets of Knape & Vogt Clothes Closet Fixtures were installed in the closets of this home.

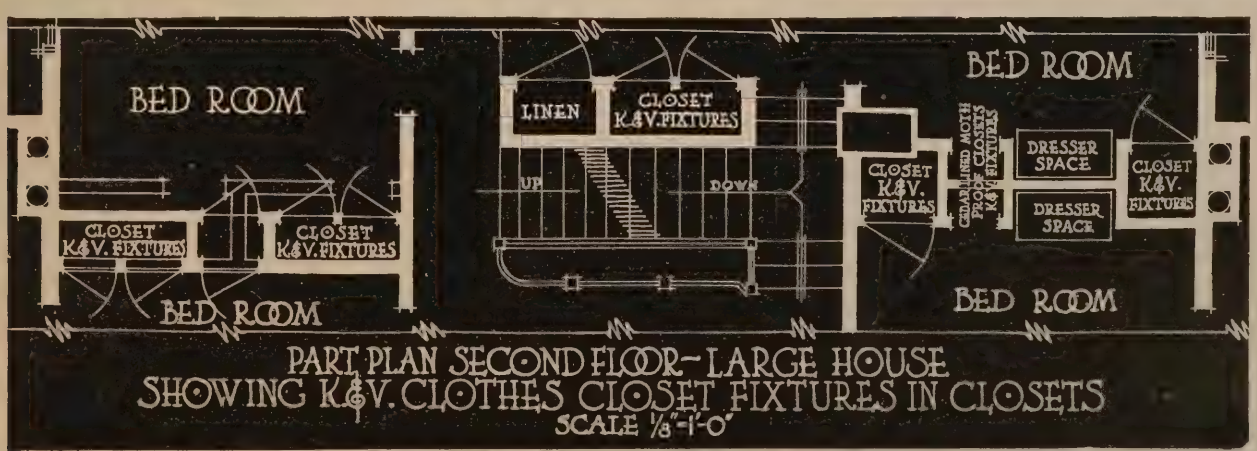


Closets Like These Match the Other Conveniences in the Modern Home:

Knape & Vogt Clothes Closet Fixtures provide roomier and more convenient closets in smaller spaces. They permit a saving in building costs often amounting to several hundred dollars in the average home. They are inexpensive and easy to install.

Our blueprint folder—"Plans for Modern Clothes Closets" and illustrated folder—"Beautiful Clothes Closets" contain valuable information of interest to contractors and builders. Both will be gladly mailed upon request.





PART PLAN SECOND FLOOR—LARGE HOUSE
SHOWING K&V. CLOTHES CLOSET FIXTURES IN CLOSETS
SCALE 1/8"-1'-0"

RECEIVADOR—The Automatic Servant

Made By

RECEIVADOR SALES COMPANY

417 Ashton Building, GRAND RAPIDS, MICHIGAN

Product

The Receivador is a metal parcel receiver consisting of one or more compartments for installation in the exterior or interior walls or doors of a residence or apartment. It receives and safeguards packages placed within until removed through the door on the inside. Each compartment has two doors—one on the outside, the other inside, provided with a non-pickable lock operated by the simple turn of a thumb bolt. An interlocking device makes it impossible to open the outer and inner doors at the same time, preventing ingress through the Receivador.

RECEIVADOR
"The Automatic Servant"
TRADE-MARK

Adapted to New or Old Construction

Receivadors can be installed in houses already built with very little trouble and expense. Any carpenter can install in a door without sacrificing the old door or disturbing its upper panel. Or they can be installed in frame or brick walls of a home.



Two Compartment Standard Receivador

Uses

The Receivador is used in the service entrance doors or walls of residences. In the corridor door or walls of apartments, clubs, etc. It is being specified by architects and builders for all classes of residential buildings.

Advantages

Provides a convenient and safe receptacle for the delivery of everything coming into the home from department stores, butcher, grocer, bakery, etc.

The morning milk and cream is safe from animals and theft. The Receivador being insulated keeps the milk from freezing in winter or souring in summer, during the period of time between delivery and when it is removed from the Receivador.

Affords a safe and weatherproof depository for the daily papers, and for packages and commodities of all kinds delivered during the absence from home or when it is not convenient to go to the door.

Keeps delivery boys off clean kitchen floors.

Construction

The Receivador is durably constructed of sheet steel and possesses great strength and rigidity. No screws or bolts are used in its assembly, all parts being electrically welded. The doors are built up of two sheets of steel with a sheet of insulating material between, and electrically welded. This insulation is effective against extreme heat and cold.

Finish

All cabinets are finished with one coat of the best non-rust, baked olive green enamel. Special grained finishes in mahogany, walnut and quartered oak can be furnished at a slight additional cost. If desired, a finishing coat the same color or trim of the house or door can be applied.



Receivador Junior, Style No. 21

This is designed especially for receiving milk and small packages. It is of the same welded construction and material as the standard type shown opposite, with the same non-pickable automatic lock but doors are of single thickness, heavy steel. Cheaper and more sanitary than wood. Is proof against dust, vermin and storms. Single compartment: 14 in. wide, 16 in. high, 7¼ in. deep. Double compartments: 32 in. high, same depth and width.



From the outside deliveries are quickly and easily made.

Operation

In making a delivery the package is placed in the Receivador and the thumb bolt turned thus automatically engaging the interlocking device and preventing the outside or delivery door from being opened until the package is removed from the inside or receiving door.

When the inside (receiving) door is closed and the thumb bolt turned, the lock on outside (delivery) door is released permitting the door to be opened. The design of this lock makes its action unfailing and reliable. The installation of a Receivador in an entrance door, does not interfere in any way with the normal operation of the door.

Sizes and Dimensions

The standard Receivador has two compartments, but a single compartment can be furnished when desired. To meet special requirements the number of compartments may be increased and they can be arranged either horizontally or vertically. Tables of dimensions for single and double compartment Receivadors are given below:

DIMENSIONS

20 in.	wide for 2 ft.	6 in.	door or wall
22 in.	wide for 2 ft.	8 in.	door or wall
24 in.	wide for 2 ft.	10 in.	door or wall
26 in.	wide for 3 ft.		door or wall

Receivador Jr. No. 21—14-in. wide, fits in wall between studding 16 in. O. C. without cutting.

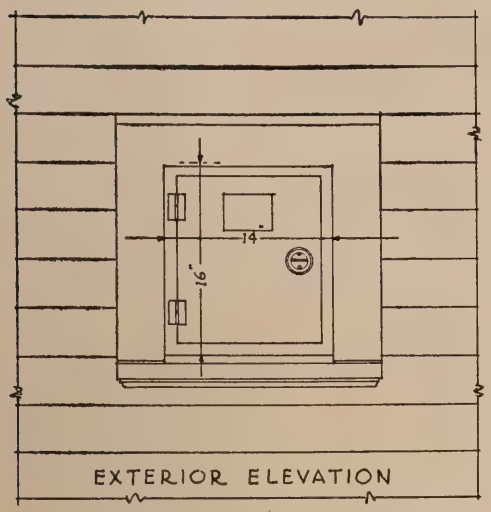
Double compartment units are 32 inches, and single compartment units 16 inches high. All cabinets are 6¼ inches deep inside, and 7¼ inch depth overall. Any number of compartments can be built up by adding single units.



Deliveries are safe in the Receivador until removed through the inside (receiving) door.

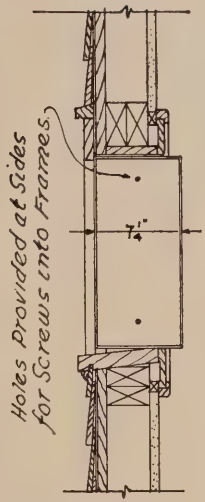
For further details and literature, write to: **RECEIVADOR SALES CO., Grand Rapids, Mich.**

RECEIVADOR—The Automatic Servant (Cont'd)

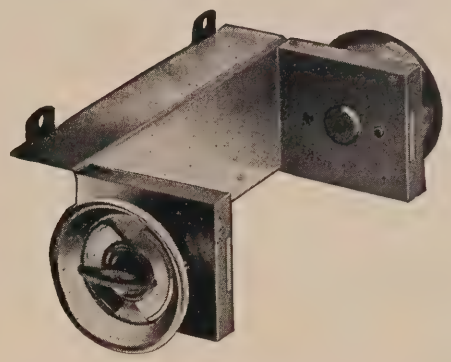


SINGLE INSTALLATION

Note: RECEIVADOR "JUNIOR" fits between Studding 16" o.c.



SECTION

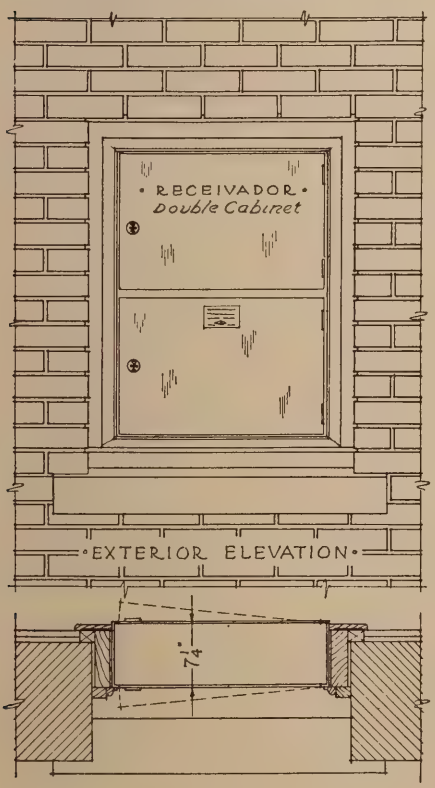


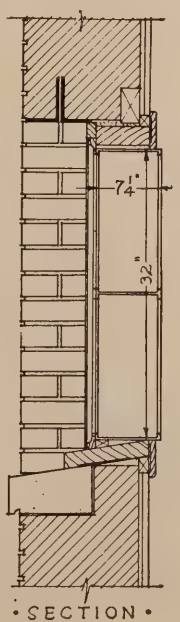
NON-PICKABLE DOOR LOCKS AND INTERLOCK

The Alternating Interlock

This remarkable device makes it mechanically impossible for the outer and inner doors to be unlocked or opened at the same time. After a delivery is made and the outer door closed and the knob given a turn the outer door is locked and the inner door unlocked automatically and simultaneously. When the delivery is removed from inside, the inner door closed again and the knob turned the action is reversed and the Receivador is ready for the next delivery.

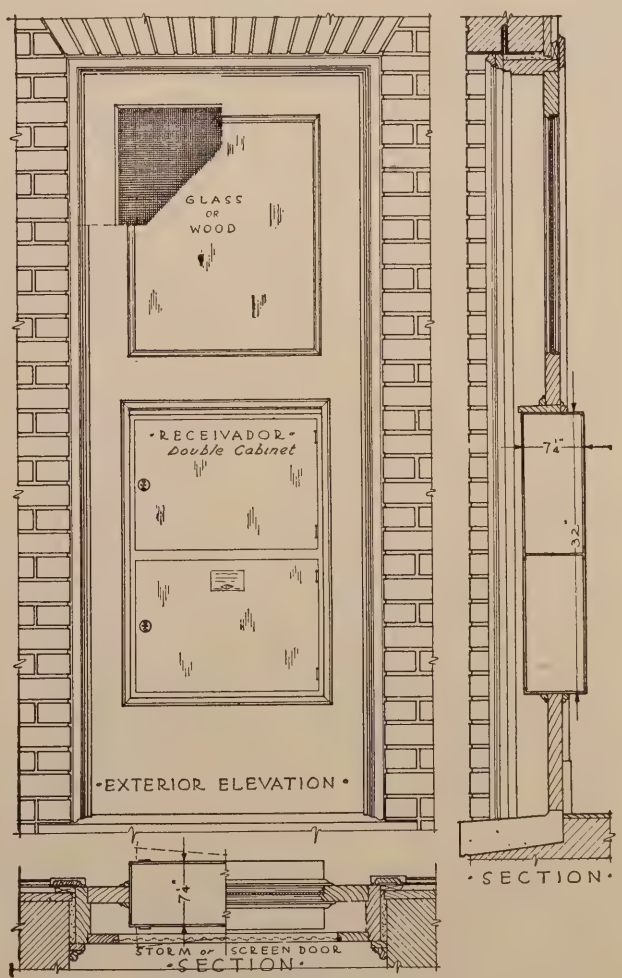
NOTE—Double installation is similar to installation of the standard type Receivador.





NOTES:
FRAMES TO *be* MADE ½ INCH WIDER *and* ¼ INCH HIGHER THAN RECEIVADOR DIMENSIONS • • •
STANDARD FRAMES MAY *be* USED • •
FRAMES MUST *be* SET SQUARE • • • •

Double Receivador Cabinet in Wall of Brick Building



Double Receivador Cabinet Installed in Wood Door

A few of the Home Builders and Architects, who use Receivadors in everything they build.

Fred Boylon, Grand Rapids, Michigan.
C. E. Reichle Co., Detroit, Michigan.
Z. Erol Smith, Archt., Chicago, Ill.
Martin Tulgren & Sons, Milwaukee, Wis.
General Building Corp., Detroit, Mich.
Park Manufacturing Co., St. Louis, Mo.
Franchette Corp., New York City, N. Y.
Joseph Biebel, Green Bay, Wis.
Marks Brothers, West Allis, Wis.
Turnquist Construction Co., Chicago, Ill.
Wellington Arms Building Corp., Chicago.
R. P. Reilly, St. Louis, Mo.

For further details and literature, write to: **RECEIVADOR SALES CO., Grand Rapids, Mich.**

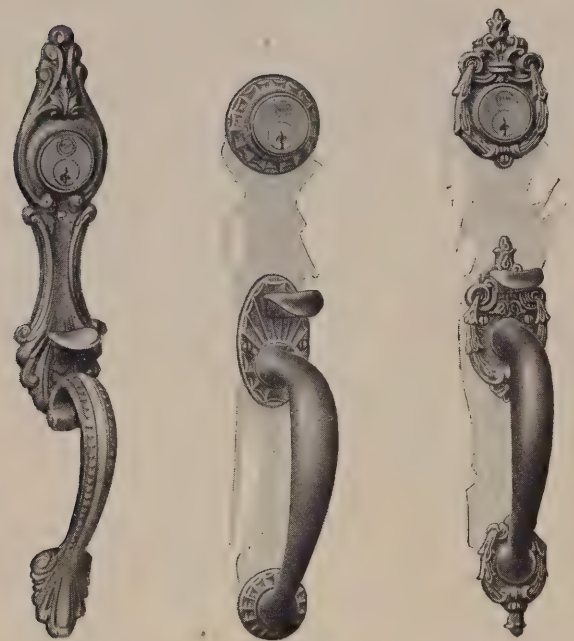
PENN LOCKS and BUILDERS' HARDWARE

Manufactured By

PENN HARDWARE COMPANY

READING, PENNA., U. S. A.

"ESTABLISHED 1877"



Penn-Lemoine Penn-Avon Penn-Rambeau

PRODUCTS:

PENN Locks and Builders' Hardware—Cylinder and Bit-Key Locks of every type for entrance and interior doors. Lock Trim of cast and wrought bronze and wrought steel in plain and ornamental designs. Entrance Door Handle Sets. And a complete line of the Miscellaneous Pieces of Hardware required for equipping doors and windows of every kind of Building from the Modest Cottage to the Palatial Residence and Public Edifice.

A COMPLETE LINE:

Lack of space makes it impossible to here illustrate even a representative selection from the complete PENN Line which includes all of the many items required for equipping buildings of every type.

For the builder of modest dwellings there are PENN Lock Sets and Window Trimmings that will add a decorative touch and give life-long service and yet can be purchased at a figure well within the usual appropriation.

For the builder of palatial residences there are artistic creations in Cast Bronze.

For Schools, Churches, Apartments, Hotels and Office Buildings there are the Lock Sets and Miscellaneous Pieces having the special features required in these various types of structures.

QUOTATIONS:

Appropriate Lists of Builders' (Finishing) Hardware required for dwellings according to plans in the Home Builders Catalog, or any other plans for buildings of any type, together with prices upon the lists, will be supplied to Contractors, Builders and Lumber Merchants.

Send Plans and information to "Department of Specifications," Penn Hardware Company, Reading, Pa.

LOCKS:

With close to fifty years experience back of them—years spent in continued pioneering and development—PENN Locksmiths are today providing the Builder with both Cylinder and Bit-Key Locks that meet his needs as they have never been met before. Locks that can be applied without difficulty; that operate with ease and yet with positiveness; and that are so sturdily built as to assure long life.

ENTRANCE DOOR HANDLES:

Handles, rather than knobs and plates, are being used extensively for entrance doors and are exceedingly attractive.

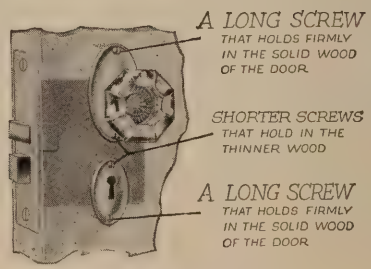
The three ornamental patterns shown above are made in cast bronze and there are various other PENN Handles in plain and ornamental designs made in wrought as well as cast metal.

Inside Trim can be supplied to match the trim being used on interior doors.

TRADE PENN MARK



Penn-Dixie Penn-Rambeau Penn-Avon



Penn-Eaton Set Applied



Penn-Ayden

SECTIONAL TRIM:

Lock Sets having separate Key and Knob Rose Plates are being used more and more on both exterior and interior doors and are no longer limited to the Plain or Colonial Patterns.

The three examples shown above are made in Cast Bronze and Cylinder or Bit-Key Sets may be had in each of the designs.

Several individual designs of Inside Door Sets made in Wrought Bronze are included in the PENN line among which are the Penn "Firmhold" Sets with Glass Knobs shown opposite.

PENN "FIRMHOLD" SETS:

The entire building industry has been quick to take advantage of the very practical feature of PENN "Firmhold" Sectional Glass Knob Sets.

Knob Rose and Key Plates extend above the top and below the bottom of the mortised locks permitting the use of long screws that hold firmly in the solid wood of the door.

Penn-Rambeau and Penn-Avon Designs made in cast bronze, and Penn Eaton and Penn-Ayden Designs, made in Wrought bronze, have this feature.

For further details and literature, write to: **PENN HARDWARE COMPANY, Reading, Penna.**

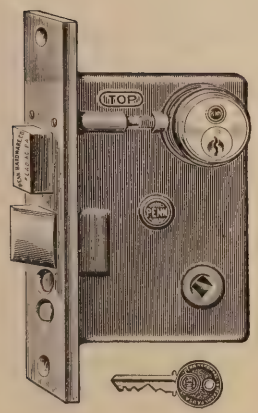
PENN LOCKS and BUILDERS' HARDWARE

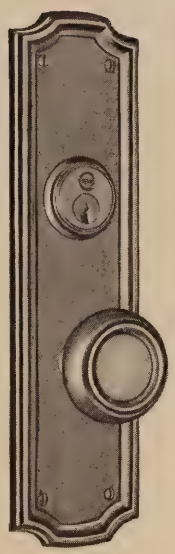
Manufactured By

PENN HARDWARE COMPANY

READING, PENNA., U. S. A.

"ESTABLISHED 1877"

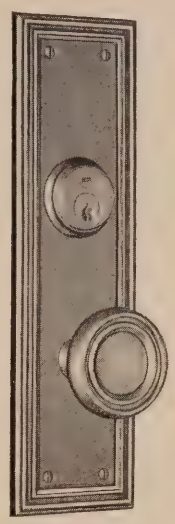




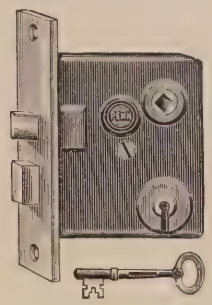
Penn-Eldon



Penn-Derby



Penn-Delphia





Penn-Danar

LOCK TRIM:

Here are illustrated several examples of PENN Lock Trim having elongated escutcheons. Those shown are made in Wrought Bronze and Steel.

In the Complete PENN Line are numerous other plain and ornamental patterns in cast and wrought bronze and wrought steel in the various Architectural Schools and Periods some of which are represented by illustrations of Entrance Door Handles, Glass Knob Sets, Sectional Trim, etc., shown elsewhere on these pages.

In each design there are the required Trim and accompanying Lock for every type of Entrance and Interior Door.



Penn-Charlton



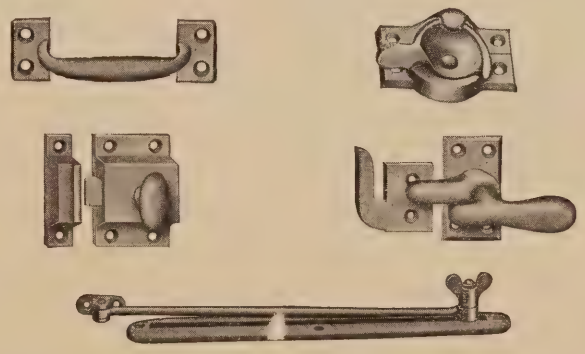
Penn-Dalton



Penn-Avon



Penn-Rambeau



GLASS KNOB TRIM:

The popularity of the Glass Knob for use with inside door locks continues to grow. Originally used with strictly Colonial Designs it has come to be used with Designs of the various Periods for several of which special patterns in glass have been provided. Glass Knobs can be furnished with any of the various PENN Designs of Trim.

MISCELLANEOUS HARDWARE:

Just as lack of space prohibits the illustration on these pages of a truly representative number of PENN Designs in Lock Trim, so does it make impossible an adequate display of PENN Miscellaneous Hardware.

Every required piece for completely trimming the doors and windows of Residences and Public Buildings is included in the PENN Line.

QUALITY:

The continuing growth of PENN HARDWARE COMPANY is the best evidence of the Quality of its Products.

"Established 1877"

TRADE PENN MARK

PRICE:

Recognized among Architects, Builders and the Trade as Standard in Quality yet PENN Hardware is not "expensive" Hardware.

"The Price is Right"

Refer to the Catalog of Penn Locks and Builders' Hardware for illustrations of the many Designs in Lock Trim which could not be shown here and for descriptions of the Locks and the complete line of Miscellaneous Hardware. A copy of the Catalog will be sent gladly to any Lumber Dealer who writes Penn Hardware Company asking for it.

For further details and literature, write to: **PENN HARDWARE COMPANY, Reading, Penna.**

Bommer Spring Hinges

Made By
BOMMER SPRING HINGE COMPANY
BROOKLYN, N. Y.

ESTABLISHED 1876

TRADE MARK
BOMMER
Reg. U. S. Pat. Office

Products

Spring Hinges for all kinds of doors also Pivots; Strikes, Bolts and Latches for Lavatory and Hospital Doors.

Quality and Prices

Standard for 50 years, and kept up-to-date retaining superiority over all others.

Prices are guaranteed to be no higher than those for goods of corresponding type.

Specifications and Catalogues

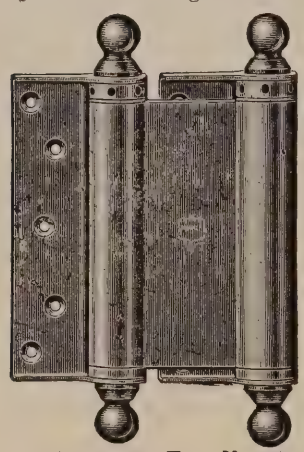
In specifying these products, use the word "Bommer" and in addition thereto, if possible, the catalogue number of the article and finish. Hardware dealers and lock manufacturers can include them in their contracts.

Complete catalogue of the Bommer Spring Hinge Company's line forwarded on application. For projects requiring special spring hinges, details of construction are solicited.

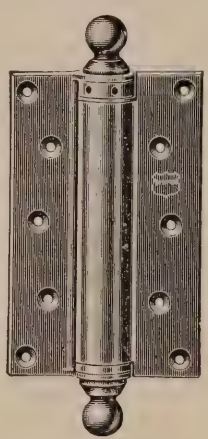
Bommer Standard Spring Butt Hinges

Bommer Standard spring butt hinges require a hanging strip for fastening them to the door casing. One flange is mortised into the hanging strip and the other into the door, which gives a uniform appearance and secure fastening.

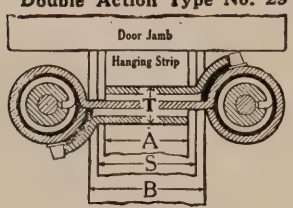
They are made of wrought steel, bronze and brass, in all finishes. The bearing surfaces are of different hardness in order to reduce friction. The spring barrels and their connecting plate are integral and exceptionally strong and of uniform thickness. The springs are of large diameter and unusual length, made of the best oil tempered steel wire, have great resilience and power and never go lame. The pintle and flange are interlocked, preventing the ball tips from working loose.

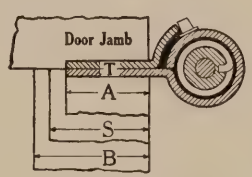


Double Action Type No. 29



Single Action Type No. 0





Details of Bommer Standard Spring Butt Hinges

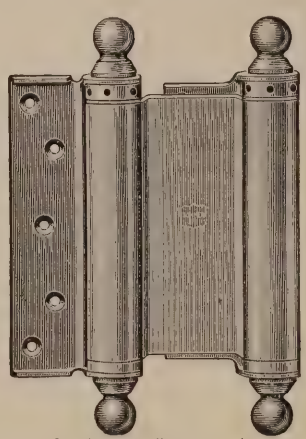
Size of hinge	T Type No. 29 thickness of the 3 leaves	T Type No. 0 thickness of the 2 leaves	A Minimum thickness of door	B Wood door maximum thickness	S Metal door maximum thickness	Width of door	Weight of door, lbs.	Hanging strip depth
3″	7/16″	11/64″	3/4″	1″	7/8″	2′ 2″	30	1/2″
4″	7/16″	11/64″	7/8″	1 1/4″	1 1/8″	2′ 4″	42	5/8″
5″	7/16″	3/16″	1 1/8″	1 1/2″	1 3/8″	2′ 6″	56	5/8″
6″	9/16″	7/32″	1 1/4″	1 3/4″	1 1/2″	2′ 8″	72	3/4″
7″	9/16″	15/64″	1 3/8″	2″	1 3/4″	2′ 9″	90	7/8″
8″	3/4″	17/64″	1 1/2″	2 1/4″	2″	2′10″	110	1″
10″	3/4″	1/2″	1 3/4″	2 1/2″	2 1/8″	3′ 0″	150	1 1/8″
12″	3/4″	17/32″	2 1/4″	3″	2 5/8″	3′ 2″	190	1 1/4″

Always use the largest size hinge the thickness of door will permit.

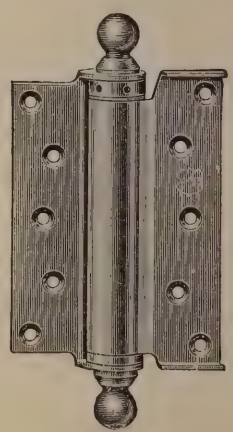
Bommer Ever Ready Spring Hinges

Ever Ready double action spring hinges do not require a hanging strip. They are fastened to the surface of the door casing, the entire thickness of hinge being mortised into the door.

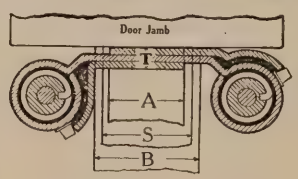
They are made of wrought steel, bronze and brass, in all finishes. The bearing surfaces are of different hardness in order to reduce friction. The spring barrels and their connecting plate are integral and exceptionally strong and of uniform thickness. The springs are of large diameter and unusual length, made of the best oil tempered steel wire, have great resilience and power and never go lame. The pintle and flange are interlocked, which prevents the ball tips from working loose.

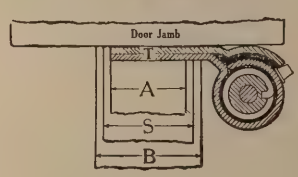


Double Action Type No. 3029



Single Action Type No. 3000





Details of Ever Ready Spring Hinges

Size of hinge	T Type 3029 thickness of the 3 leaves	T Type 3000 thickness of the 2 leaves	A Minimum thickness of door	B Wood door maximum thickness	S Metal door maximum thickness	Width of door	Weight of door, lbs.
3″	15/16″	11/64″	3/4″	1″	7/8″	2′ 2″	30
4″	1/4″	11/64″	7/8″	1 1/4″	1 1/8″	2′ 4″	42
5″	9/32″	3/16″	1 1/8″	1 1/2″	1 3/8″	2′ 6″	56
6″	5/16″	7/32″	1 1/4″	1 3/4″	1 1/2″	2′ 8″	72
7″	3/8″	15/64″	1 3/8″	2″	1 3/4″	2′ 9″	90
8″	15/32″	17/64″	1 1/2″	2 1/4″	2″	2′10″	110

When hinges larger than the above are required, use Bommer standard spring butt hinges with a hanging strip.

Always use the largest size hinge the thickness of door will permit.

FOR SALE BY DEALERS IN BUILDERS HARDWARE

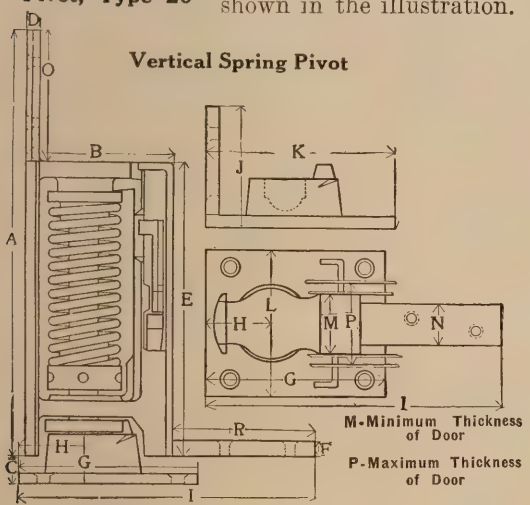
TRADE MARK BOMMER



Vertical Spring Pivot, Type 20

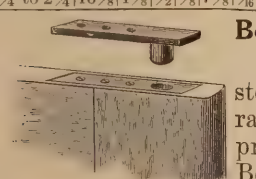
Bommer Vertical Spring Pivot with Release Feature

Permits door to stand open at any angle by pressing down either side pedal with the foot. The spring tension automatically re-engages itself when door is closed. The floor plate is fastened to the floor surface, obviating the need of cutting holes in the floor. The weight of the door is carried on ball bearings located in the upper part of the pivot frame away from water and dust. The top pivot has a spring actuated plunger which permits the door to be taken down quickly without removing the screws. For tile or concrete floors a special right angle floor plate can be furnished instead of the floor plate shown in the illustration.



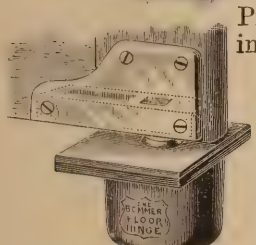
Details Vertical Spring Pivot, Type No. 20
Dimensions in inches

For doors	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R
1⅛ to 1½	7⅞	2¾	½	5/16	5½	5/16	3¼	1¼	5 5/16	2¼	3½	2 11/16	1⅛	¾	2½	1½	2⅝
1½ to 2	8	3	½	7/16	5½	⅜	3⅝	1½	6¼	2½	4	3 1/16	1½	1	2 1/16	2	3⅛
1¾ to 2¾	10⅛	4⅛	½	⅝	7½	7/16	4⅝	2 3/16	7⅞	3	4¾	3¾	1¾	1⅜	3	2¾	3⅜



Bommer Mortise Spring Pivots

Support weight of door on tool-steel ball bearings set upon a raised center post. Bearings are protected from water and dirt. Best oil tempered springs are used. Pivots are furnished either with invisible socket bar with adjustable top pivot, or side plates. Tension of spring is adjustable. Pivots are double acting, but by using stop bead will work single acting.



Floor Mortise Spring Pivot

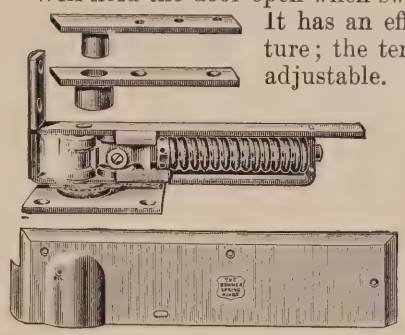


Cast Iron Box
Suitable for setting all sizes, of floor mortise pivots into tile or cement floors.

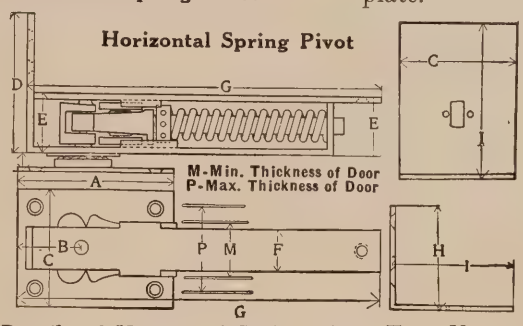
Thickness of door	Use size	Dimensions of top plate	Depth of cup	Distance from center of spindle to door casing
⅞″ to 1½″	2	3¾″ x 5⅛″	3″	1⅝″
1⅜″ to 2″	4	3⅞″ x 5⅝″	3½″	1¾″
2″ to 2½″	6	4½″ x 6½″	3¾″	2″
2½″ to 3½″	8	4½″ x 6½″	3¾″	2″

Bommer Horizontal Spring Pivot with Holdback Feature

Will hold the door open when swung back beyond 90°. It has an efficient alignment feature; the tension of the spring is adjustable. The floor plate is screwed to the floor surface, obviating the need of cutting holes in the floor. The weight of the door is carried on ball bearings. All moving parts can be lubricated through a hole in the side plate.

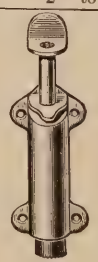


Horizontal Spring Pivot



Details of Horizontal Spring Pivot, Type No. 18
Dimensions in inches

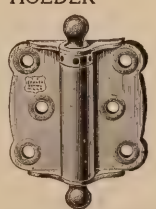
For Doors	A	B	C	D	E	F	G	H	I	M	P	Series No.
1⅛ to 1¾	3½	1½	2¾	3¾	1 7/16	1	8¾	2⅛	3 5/16	1⅛	1¾	18
2 to 2½	5 1/16	2¼	4	4⅞	2 5/16	1¼	12	2 5/16	5 1/16	2	2½	19



DOOR HOLDER

Bommer Door Holder

Is the best, easiest to apply, and most effective device for holding open doors of public or office buildings and residences. A light pressure of the foot will either throw or retract the bolt. The rubber tip prevents marring of floor. Will reach 1½ in. from door to floor. Furnished in wrought steel or bronze metal, in all finishes.

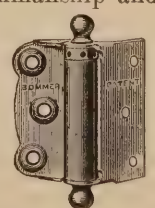


Type No. 2100

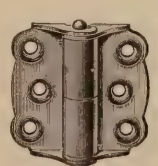
Bommer Screen Door Hinges
Type No. 2100 and 2200

Has adjustable tension. The coil-spring is entirely enclosed and is made of best oil-tempered steel wire. This hinge is of excellent workmanship and finish, and is made of heavy wrought steel or brass metal. The tension of the spring can be regulated after the hinge is applied to the door.

Type No. 2200, one leaf is fastened to the casing, the other is fastened to the surface of the door.



Type No. 2200



Type No. 900

Bommer Screen Door Hinge
Type No. 900—Wrought Steel

Has two bearing joints, no matter which end of the hinge is upper-most, thereby greatly increasing its strength and durability. Has enclosed oil-tempered spiral coil-spring. A handsome, well finished and thoroughly satisfactory article.

McKinney Hinges and Garage Hardware

Made By

McKINNEY MANUFACTURING COMPANY
PITTSBURGH, PA.

NOTE: *The "Forethought Plans" offered below will prove a help in home planning to both Builder and Future Owner. Send to McKinney for them at once.*

Garage Hardware Sets Complete

Sets of all types and kinds, boxed complete, all ready to put on. Choose from styles shown here or send for complete catalog of styles for all kinds of door combinations.



Set No. 9032

The above illustration shows one of five McKinney complete hardware sets for 2-door swinging entrances.



Set No. 9023

In addition to the 3-door around-the-corner set shown there is a 4-door set for slightly larger entrances.



Set No. 9010

The McKinney hardware sets for sliding-folding entrances cover a wide range of requirements. In some sets the doors fold outside the garage and in others the doors fold inside. There are sets for two, three, four and five door entrances.



Use This Hinge Chart

Listing McKinney Finishes That Harmonize with Different Wood Trim Finishes.

This is the McKinney touch—a perfect blending of utility and beauty—wrought into the design and fabrication of every superb hinge.

Added to their beauty of line is the richness and variety of McKinney finishes. The list given here suggests a few of the most fascinating and tells the type of wood trim finish with which each blends to best advantage.

Brown Mahogany
- Bright Bronze
- Statuary Bronze
- Dull Rubbed Bronze
- Oxidized and Sanded Bronze
- Dull Brass
- Verde Antique

Red Mahogany and Birch
- Bright Bronze
- Statuary Bronze
- Oxidized and Sanded Bronze
- Bright Brass
- Dull Brass

Flemish, Weathered and Mission Oak:
- Bower-Barff
- Verde Antique
- Statuary Bronze
- Oxidized and Sanded Bronze
- Dull Rubbed Bronze
- Old Iron
- Rusty Iron

Oak, Maple, Chestnut and Cypress (Natural Finish)
- Bright Bronze
- Statuary Bronze
- Antique Brass
- Antique, Oxidized and Sanded Brass
- Antique Copper
- Verde Antique

White Enamel
- Bright Brass
- Polished Brass
- Satin Silver
- Bright Nickel
- Dull Nickel
- Bower-Barff

Flat Tinted Woodwork

Painted hardware trim in same tints as wood trim. Light blues and grays, apple greens, etc.

Remember you are choosing for a life-time of service. Select carefully—and allow plenty of time.



A Gift for Those About to Build

McKinney Forethought Plans consist of little cutouts of your furniture made in proportion to your plans. With them you can arrange and rearrange your furniture right on the blue prints until you are certain the wall space, fixtures, doors and base plugs are as you want them. To aid you in your home building McKinney will gladly send a set of these plans. Just write

For further details and literature, write to: **McKINNEY MANUFACTURING CO., Pittsburgh, Pa.**

Stanley Builders' Hardware

Manufactured By

THE STANLEY WORKS

NEW BRITAIN, CONN.

BRANCH OFFICES

New York, N. Y., 100 Lafayette St. Chicago, Ill., 73 E. Lake St.

Los Angeles, Cal. San Francisco, Cal. Seattle, Wash.

Products

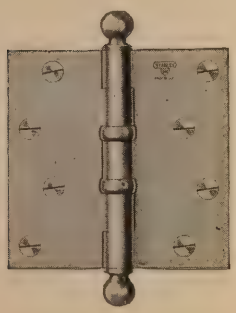
Wrought Steel and Bronze Builders Hardware, including Ball Bearing Butts and Hinges, Latches, Handles, Bolts, Storm Sash Hardware, Screen Hardware and Blind Hardware. The Stanley Works have been manufacturing high grade builders' hardware for over 80 years. All Stanley wrought steel products are manufactured from cold rolled steel from their own steel mills. Uniform quality is assured. For Garage Hardware see page 269.

Finishes

Stanley products can be furnished in any finish to match other hardware used.

Obtainable

Stanley products can be obtained from any builders' hardware dealer.



Stanley Wrought Steel Ball Bearing Butts

No. BB239

Recommended for use in the finest houses. Equipped with Stanley Ball Bearing Washers to insure ease of operation. Non-rising, self-lubricating loose pins. Inner edges of leaves beveled. Highly polished and heavily plated. Furnished in all standard finishes.

Sizes, inches, 3x3, 3½x3½, 4x4, 4½x4½, 5x5, 6x6.



Stanley Wrought Steel Butts

Designed for Painting

No. 235

Extra clearance is provided between knuckles and edges of the leaves to prevent marring the paint when the door is operated.

Loose pin is non-rising.

Supplied with flat button tips but ball tips or oval button tips can be furnished if desired.

Provided with a priming coat to serve as a base for painting.

Size: Inches, 3½x3½, 4x4, 4½x4½, 5x5, 6x6.

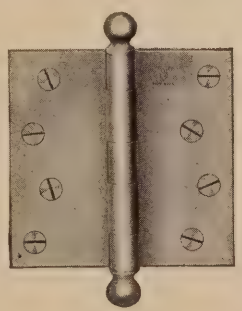
Stanley Wrought Steel Butts

No. 239

Adapted for fine work. Inner edges of leaves are beveled, Loose Pin is non-rising and self-lubricating. Highly polished and heavily plated.

Furnished in all Standard finishes.

Sizes, inches, 2x2, 2½x2½, 3x3, 3½x3½, 4x4, 5x5 and 6x6.



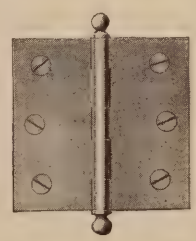
Stanley Wrought Steel Light Loose Pin Butts

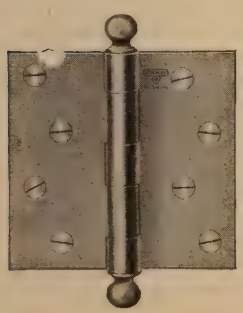
No. 289

Planished and Plated. Recommended for use on light weight doors such as china closets, cabinets, cupboards, etc.

Furnished in all standard finishes.

Sizes: Inches, 2x2, 2½x2, 2½x2½, 3x2½, 3x5.





Stanley Wrought Steel Butts

No. 241½

A finely polished and plated butt recommended for general use. Loose pin is non-rising. Furnished in all standard finishes.

Sizes, inches, 2x2, 2½x2½, 3x3, 3½x3½, 4x4, 4½x4½, 5x5 and 6x6.



Stanley Wrought Steel Surface Bolts

No. 381 and No. 379

Strong bolts used to fasten the top and bottom of double doors and windows.

No. 381 ½ in. half round rods. Sizes 6, 9, 12 and 18 in. lengths. One inch throw.

No. 379 ⅜ in. half round rods. Sizes 3, 4 and 6 in. length. 3 in. size has ⅝ in. throw. 4 and 6 in. sizes have 1 inch throw.

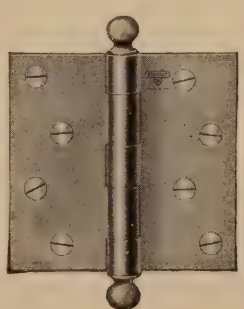
Furnished in all standard finishes.

Stanley Wrought Steel Butts

No. 241

Planished and plated. Adapted for general use. Loose pin is non-rising. Furnished in all standard finishes.

Sizes, inches, 2x2, 2½x2½, 3x3, 3½x3½, 4x4, 4½x4½, 5x5 and 6x6.



Stanley Wrought Steel Door Holders

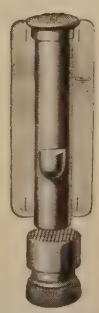
No. 456

Can be used on doors of any weight. Especially recommended for doors equipped with door checks, single of double acting spring hinges.

Equipped with composition rubber tip, self adjusting to unevenness of the floor.

Slight pressure on trip lever releases the holder.

Plates are 5x2 in. Diam. of bolt ¾ in. Throw ¾ in. Furnished in all standard finishes.



If the door arrangement you desire is not shown on this page write for our complete catalog.

Garage Door Hardware

Made by

ALLITH-PROUTY CO.

Danville, Illinois

We make Right Angle and Round-a-Corner Door Hangers, Parallel Folding Sliding Door Equipment and many other forms.

Products

This company makes a complete line of Garage (or Barn) Door Equipment for swinging and sliding doors. Among unusual devices manufactured by this company are hardware for *vertically* sliding doors, and an electrically operated garage door control enabling the doors to be opened or closed from a distance by merely pushing a button.

Various Arrangements of Doors

Where an opening is closed by two doors the simplest arrangement is as illustrated at the right—two swinging doors which may open either outward or inward.

With three, four, five and six doors some form of sliding, or folding-sliding, doors are required.

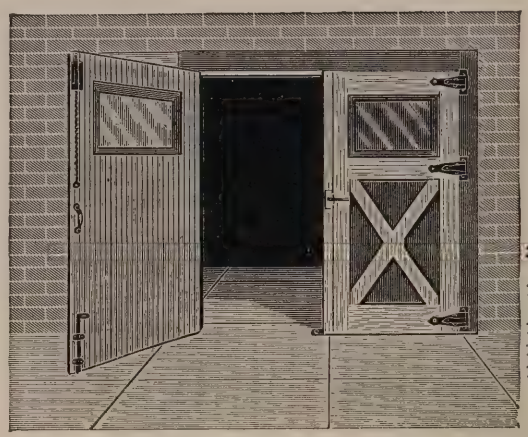
The possible arrangements increase with the number of doors, but for each opening there is one *best* arrangement of doors. We have made a careful study of all possible arrangements and will be glad to suggest the best arrangement for any given condition. We have designed hangers and tracks suitable for all conditions. These are illustrated and described in our catalog, No. 91, a copy of which we will be glad to mail you on request.

Three Styles of Track

Local conditions and cost considerations will determine the style of track to be used with any sliding, or folding-sliding, door installation. When the track is installed outside the building, exposed to the weather, some form of Watershed Track is generally required since in this form the hangers and the track on which they run are protected from rain, snow and ice. Watershed types of track are not shown here, but are completely described and illustrated in Catalog No. 91. For inside installations a Trolley Track with roller-bearing wheels and ball-bearing swivels is the ideal installation, friction being reduced to the minimum, and the doors opening and closing noiselessly and with little effort.

Next to the Trolley the best form of track is the Tubular (or Round) Track, which costs somewhat less than a Trolley Track installation.

When lowest possible price is the first consideration the Flat Track should be used, as this is the cheapest to buy and the easiest to install.



TWO DOORS

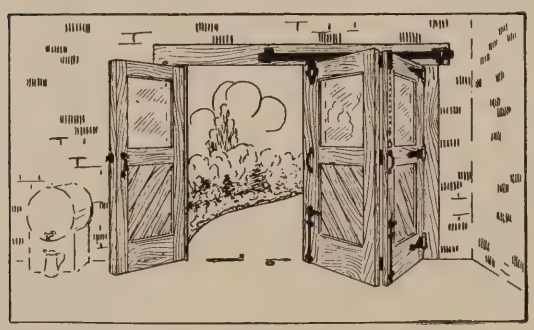
Swing Type

Hardware consists of

- 3 Pairs Hinges
- 1 Thumb Latch
- 1 Door Pull
- 1 Chain Bolt
- 1 Cane Bolt

Equipments at All Prices

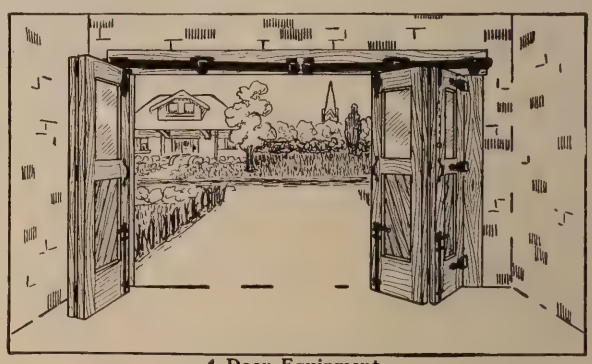
Irrespective of price, all Allith-Prouty Garage Door Equipments are thoroughly reliable and are the result of the best engineering knowledge and manufacturing skill. The differences in price are largely due to the materials used—steel or Certified Malleable—and to whether the hanger wheels are merely cast, or machine finished; roller-bearing, or plain bearing. We can give you an equipment at any price you want to pay and whether you buy the cheapest or the best you get good value for your money.



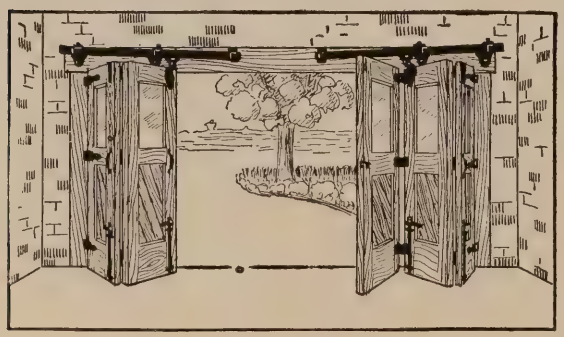
3 Door Equipment

ALWAYS ON THE TRACK · ALLITH-PROUTY COMPANY · REG. U.S. PAT. OFF.

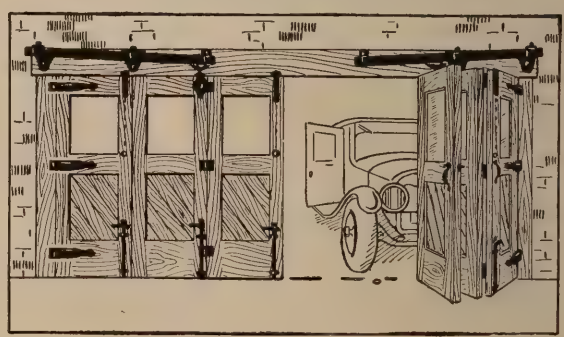
Trade Mark



4 Door Equipment



5 Door Equipment

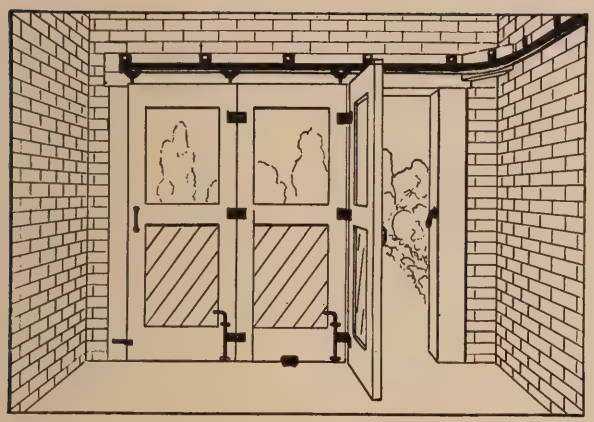


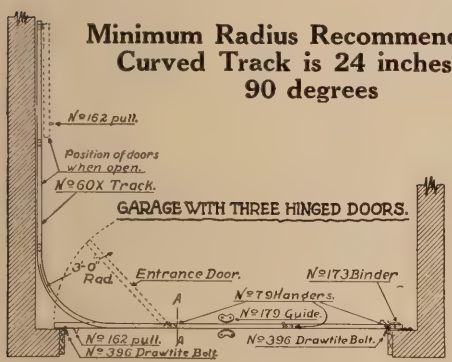
Arrangement for 6 Doors

For further details and literature, write to: **ALLITH-PROUTY CO., DANVILLE, ILLINOIS**

We illustrate on this page two interesting door problems that are completely solved by the use of Allith-Prouty Garage Door Equipment. Trolley Type of track is featured but we can furnish same arrangement of first Column in either the round or flat types of track

TROLLEY SWIVEL HANGERS
For Doors that Slide Around a Corner
Curved Track





Minimum Radius Recommended for Curved Track is 24 inches and 90 degrees

Where the distance, between edge of jamb and side wall, is less than 30 inches you will have to use three doors in the opening, installed as shown in above plan. With this arrangement you then have an easy operating set of hardware as well as the convenience of a passage door.

When a two-door installation is insisted on, do not attempt to use curves unless there is 30 inches of space to the side wall, but use instead the right angle arrangement shown in next column.



No. 127
For Single Doors and Rear End on Double Doors.

Types of Hangers Used With These Equipments

Intermediate Size No. 71-X Track. For doors not over 700 pounds.

Made also in smaller and larger sizes.



No. 1127
For Front End of Double Doors.
(Where they meet)

TROLLEY SWIVEL HANGERS
For Doors that Slide at Right Angles
Straight Track

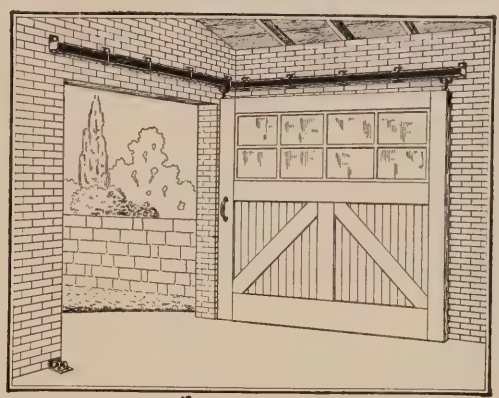




Fig. 1

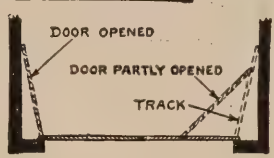


Fig 2

Fig. 1 represents a small garage which is commonly used. The opening is usually the width of the front wall. This cut shows two doors in the opening, but one door will operate just as satisfactorily. Two doors should be used where the car is nearly the length of the garage as a single door will take up more space in going across the corner. A single door requires two runs of track while two doors need three runs of track, one across the front and two shorter lengths at the sides.

Fig. 2. represents a condition where the space from the side walls to the jambs is less than two feet. The same amount of material is required as in Fig. 1, only the two side tracks are placed at an angle. A 2x6 in. timber placed 4 in. from the jamb and attached to the side wall makes a practical track support.



Fig. 3

Fig. 3 has an opening at one side with a right angle door and one sliding door. This arrangement of the tracks and hangers is the same as described in Fig. 1, with the exception that one door runs parallel with the front wall.

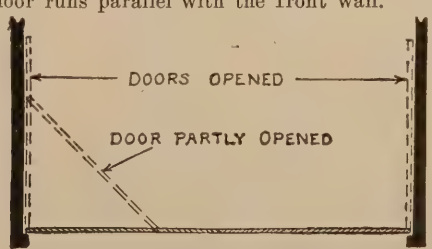


Fig. 4

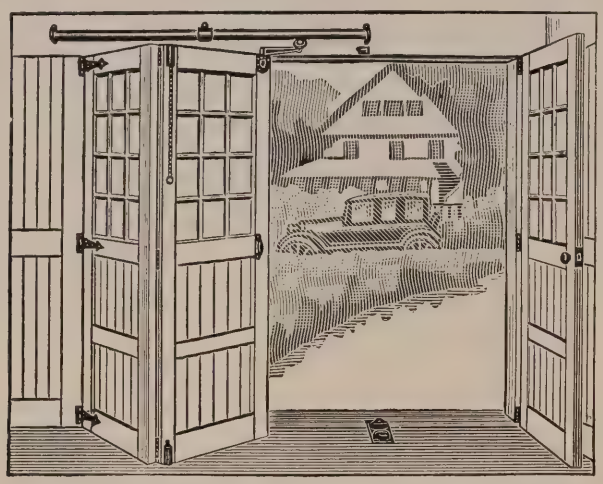
Fig. 4 represents a wide garage for two cars which requires the same outfit as described in Fig. 1, only the tracks are longer to accommodate the larger doors.

Cannon Ball Garage and Barn Door Sets

ALBANY, N. Y.
Industrial Bldg.
SAN FRANCISCO, CALIF.
383 Brannan St.

Made by
HUNT-HELM-FERRIS & CO., Inc.
HARVARD, ILLINOIS
PHILADELPHIA, PA., 22nd and Arch Sts.

LOS ANGELES, CALIF.
1811 East 7th St.
MINNEAPOLIS, MINN.
422 Stinson Blvd.



No. 1093 Cannon Ball Comepacked Garage Set for 3 doors

Contents

No. 1093 set consists of the following and all necessary bolts and screws. It is packed in one box and weighs 65 lbs.

2—pieces Cannon Ball Track 40 inches long.
1—No. 682 Splice Bracket.
1—No. 789 Floor Guide
6—No. 1077 10-inch Offset T. Hinges.
3—No. 1078 4-inch Offset Surface Hinges.
1—No. 1079 Chain Bolt.
1—No. 1080 Foot Bolt.
2—No. 1081 Hand Pulls.
1—No. 1090 Cannon Ball Extension Arm Hanger.
1—No. 1092 Hanger Stop.
2—No. 1097 Special End Brackets.
1—No. 1098 Spring Hanger Cushion.
1—No. 1099 Top Holder.

Advantages

There is no better way of closing the entrance to a garage than with folding—sliding doors because this method combines the easy operation of sliding doors along with the tight closing feature of folding doors. This method is much to be preferred to the old double swinging doors or to sliding doors which are not weather-tight. Doors mounted with Cannon Ball fixtures will not sag, will open half way or all the way and will stay open. They will not blow in the wind.

Products

This company in addition to making the Door Hangers described and illustrated on this and on the following page manufactures a complete line of modern barn equipment including Litter Carriers, Stanchions, Automatic Water Bowls, etc. These are listed on pages 272 and 273.

Types and Sizes

Cannon Ball Garage Sets are designed for three doors in openings 7′ 6″ to 9′ wide up to six doors in an opening 15′ to 18′ wide. In each case a single entrance door is provided. In addition to the regular sets there are the Cannon Ball, Jr. sets that are the same only smaller for lighter doors. See table of specifications for details of both.

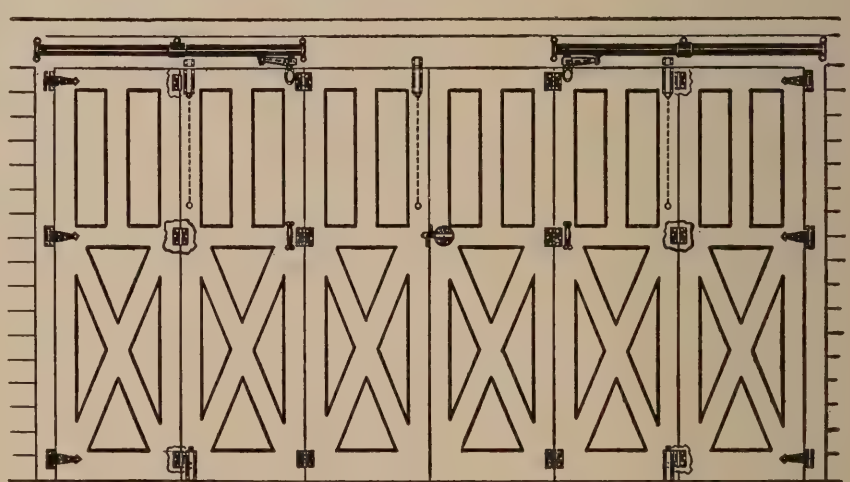
Installation

The track lies flat against the building and is generally mounted inside the building, particularly in garages. In barns they are generally on the outside. Complete equipment to make a finished job is shipped in one package. The extension arm hanger seen in the illustration at the left is the secret of the easy operation of these sets; the rollers are roller bearing and it swings as the doors open so that the door alignment is kept intact.

SPECIFICATIONS

No.	Doors	Style	Width of Doors	Size of Opening
1093	3	C. B.	2′6″ to 3′	7′6″ to 9′
1094	4	C. B.	2′6″ to 3′	10′ to 12′
1095	5	C. B.	2′6″ to 3′	12′6″ to 15′
1096	6	C. B.	2′6″ to 3′	15′ to 18′
1103	3	C. B. Jr.	2′6″ to 3′	7′6″ to 9′
1104	4	C. B. Jr.	2′6″ to 3′	10′ to 12′
800	3	C. B.	2′6″ to 3′	7′6″ to 9′
864A	4	C. B.	2′6″ to 3′	10′ to 12′
865	5	C. B.	2′6″ to 3′	12′6″ to 15′
866	6	C. B.	2′6″ to 3′	15′ to 18′
1140	3	C. B.	Around the Corner	8′ to 12′

NOTE: C. B. for Cannon Ball and C. B. Jr., for the Junior or smaller size track and hangers.



No. 1096 Showing the Six-Door Installation. No. 1094 Set for Four Doors and No. 1095 Set for Five Doors Are Similar

Cannon Ball Garage and Barn Door Hangers

ALBANY, N. Y.
Industrial Bldg.
SAN FRANCISCO, CALIF.
383 Brannan St.

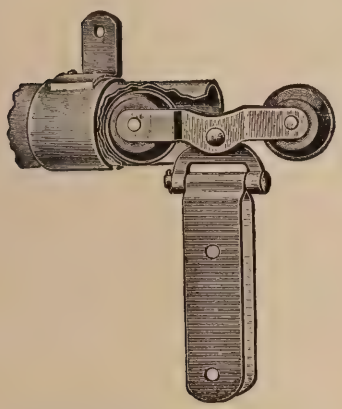
Made by

HUNT-HELM-FERRIS & CO., Inc.

HARVARD, ILLINOIS

PHILADELPHIA, PA., 22nd and Arch Streets

LOS ANGELES, CALIF.
1811 East 7th St.
MINNEAPOLIS, MINN.
422 Stinson Blvd.



No. 384—Cannon Ball roller bearing hanger; flexible joint; non-adjustable; pressed steel ball wheels; for 2" doors weighing up to 400 lbs.

Description

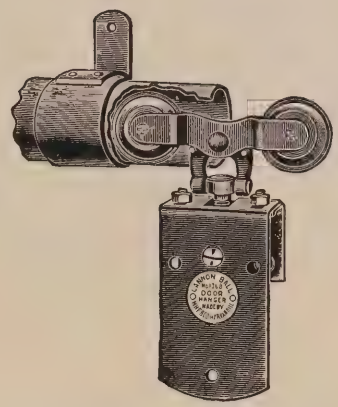
Cannon Ball track is made by pressing a steel sheet into nearly a complete circle 2½" in diameter. The hangers consist of two rollers or wheels that are roller bearing, whose face is made to conform to the inside of the track. They are connected in tandem and the door is fastened to the bracket that hangs from the roller frame through the slot in the track. Brackets to support the track as illustrated below provide for any sort of installation.

Features

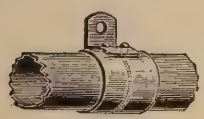
Cannon Ball track is dirt proof because the only place for dirt to get in is at the lowest point of the circle where it tends to fall out rather than accumulate. The ends of the track are closed. It comes in convenient lengths so any run may be had in even feet without cutting.

Uses

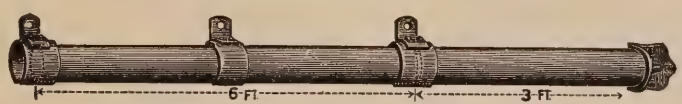
Cannon Ball Track and Hangers are used to hang doors on any opening, such as in garages, barns, or factories, that do not weigh over 400 lbs. The roller bearing feature makes them easy running and they always remain that way.



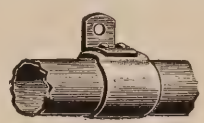
No. 1068 — Cannon Ball roller bearing hanger with vertical lateral and thickness-of-door adjustments; for doors weighing up to 400 lbs.



No. 682—Splice Bracket couples track and supports it at joints. Notches in end of track slip over rivet heads inside splice, keeping track in perfect alignment between joints.



No. 681—Cannon Ball Track comes in convenient lengths of 3', 4', 6' and 8'.

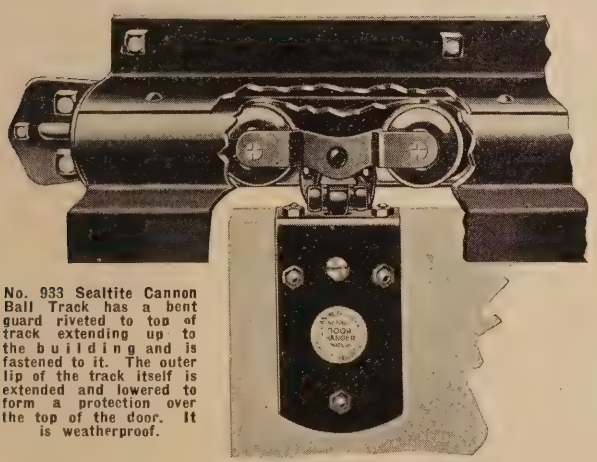


No. 683 — Intermediate Bracket is used where necessary to support track between joints. The offset at the top allows it to be placed at any point on the track.

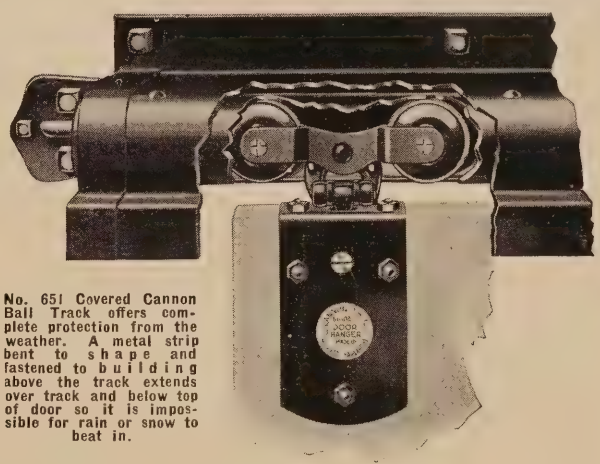
No. 680 — End Bracket supports the end of a run



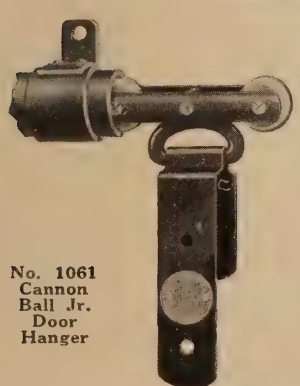
of track and effectively closes the opening.



No. 933 Sealtite Cannon Ball Track has a bent guard riveted to top of track extending up to the building and is fastened to it. The outer lip of the track itself is extended and lowered to form a protection over the top of the door. It is weatherproof.



No. 651 Covered Cannon Ball Track offers complete protection from the weather. A metal strip bent to shape and fastened to building above the track extends over track and below top of door so it is impossible for rain or snow to beat in.



No. 1061 Cannon Ball Jr. Door Hanger

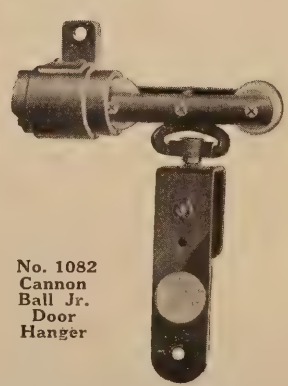
Cannon Ball Jr. Track and Hangers
are like the regular Cannon Ball but smaller, and intended for doors weighing up to 250 lbs. They are designed the same, made the same and do the same work in lesser capacity.

No. 1061 Cannon Ball Jr. Door Hangers
for doors weighing up to 250 lbs.; roller bearing; non-adjustable.

No. 1082 Cannon Ball Jr. Door Hangers
roller bearing; lateral and vertical adjustments; for doors weighing up to 250 lbs.

No. 1088 Cannon Ball Jr .Track and Bracket,
furnished in 3', 4', 6' and 8' lengths.

SERVICE
We furnish fully detailed directions with every order. Our engineering department is at the disposal of our customers in special cases without cost. We guarantee our goods. Let us send you a complete catalog. It will interest you.



No. 1082 Cannon Ball Jr. Door Hanger

For further details and literature, write to: **HUNT-HELM-FERRIS & CO., Inc.** HARVARD, ILL. or the Nearest Branch

R-W *Slidetite* Garage Door Hardware

Made By

Cable Address
"Richwilco Aurora"

RICHARDS-WILCOX MFG. COMPANY
AURORA, ILLINOIS

Canadian Factory
London, Ontario

FOR BRANCH OFFICES SEE PAGE 247

Products

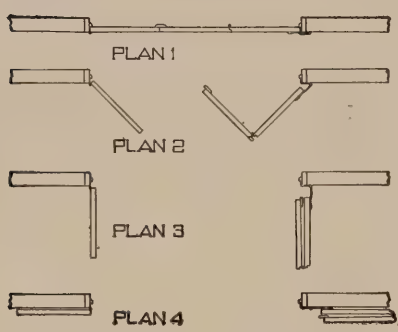
AiR-Way Multifold Window Hardware, Garage Door Equipment, Vanishing House Door Hardware, Garage Door Bolts, locks and floor guides, Builders Brackets and Hardware Specialties.

For Window Hardware, see page 247.

R-W "Slidetite" Sliding-Folding Garage Door Equipment



Interior view of a three door Slidetite installation.



Floor plans showing various positions of doors. (1) doors closed, (2) doors partly open, (3) doors opened at right angles to front wall, (4) doors open parallel with front walls, giving clearance from jamb to jamb.

R-W "Slidetite" Sliding-Folding Garage Door Equipment

Combination hinged, folding and sliding type for openings from 8 to 30 feet wide. Doors are hinged at jamb on inside of building with one of each pair of doors supported at outer edge by No. 435 roller bearing sliding door hangers. Space requirement between doorway and car equals approximately the width of one door plus 4 in. where No. 435 hardware is used, or the width of one door plus offset of hinge where No. 1035 hardware is used.

"Slidetite" doors fit perfectly tight, are weather-proof, can not sag, and will not warp. All of the openings may be used at one time.

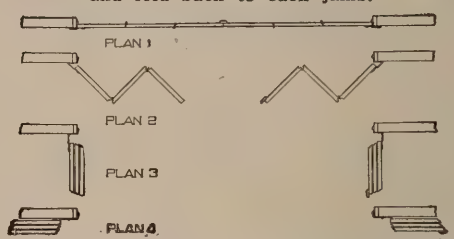
Styles

"Slidetite" outfits are made in two styles—No. 435 and No. 1035; the designating numbers referring to the style number of hinge used, the No. 435 hinge being a half surface hinge or butt while No. 1035 is an offset strap hinge.

No. 435 hardware for light doors is furnished with a half-surface hinge which throws 2 doors on each side of the opening clear of the jamb. Heavier No. 435 Hardware is furnished with butts which cause the doors, when standing at right angles to the opening, to project into the opening. With the No. 1035 hinge, the doors swing clear of the opening.



In a six door set, three of the doors slide and fold back to each jamb.



Floor plans showing various positions of doors. (1) doors closed, (2) doors partly open, (3) doors opened at right angles to front wall, (4) doors open parallel with front walls, giving clearance from jamb to jamb.

Thickness of Doors

For private garages, doors 1¾" thick should give satisfactory service. For public garage doors, subject to hard usage, doors 2¼" thick should be used. Hardware is made to handle doors up to 2½" thick.

Equipment

All necessary hardware is furnished with each "Slidetite" outfit, including: track, hangers, brackets, hinges, bow handles, top and bottom bolts and all screws and bolts necessary to erect. Lock for entrance door not furnished with sets, but should be specified separately.

Intermediate and end brackets are adjustable. Hangers have metal wheels, vertical adjustment and ball-bearing swivel pendants.

No. 517 or 617 top and bottom Cremone bolts are required to lock the doors in place. Floor guides are furnished where necessary and two bumper shoes are attached to lower corner of door to prevent chafing by guide.

Locking

If no separate entrance door is available (1) hang the doors so one door near the center of the opening will be hinged free to serve as passage door, or (2) specify No. 1125 outside lock with No. 617 Cremone bolt inside.

Special Features

In the winter time when snow and ice is liable to pile up against the outside of the garage doors, it is unnecessary to dig your way into the garage, as Slidetite doors open inside. The hinges used at the jamb are provided with an offset which throws the doors in back of the jamb and give a clear opening from jamb to jamb.

Service

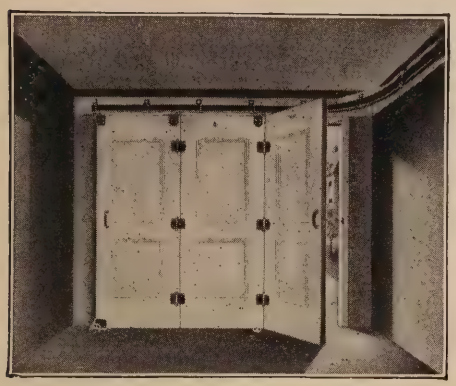
If you have any special problems in regard to hanging garage doors, R-W engineers will be glad to suggest to you the proper equipment to handle any doors.

A special catalog has been prepared on this subject, and the information contained therein, is very complete and concise, and a copy will be gladly sent upon request.

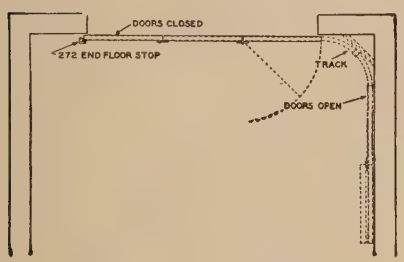
For further details and literature, write to: **RICHARDS-WILCOX MFG. COMPANY, Aurora, Illinois**

Richards-Wilcox Garage and Vanishing Door Hardware

R-W No. 235-JJ "Slydasyde" Garage Door Equipment



Interior view, three door "SlydaSyde" No. 235-JJ installation. Standard 2'8" doors are used.



Floors plans of above set

For three doors hinged together. The door nearest the side of the building toward which the doors slide when opening is used as an entrance door. The doors may be mounted to slide to the right or to slide to the left. The hardware is reversible and can be used in any opening regardless of the distance from the jamb to the side wall.

Special Features

The entrance door swings free and is folded back before the doors are operated around the curved section of the track. In this way, but little space is required between the doorway and the back end of the car when it stands in the garage. When in open position, the doors lie flat against the side wall of the garage. If a two car garage is being built set, 235-KK 6 door hardware should be specified. This would mean that three of the doors would slide to each side wall when in open position.

Service

Detailed information regarding this hardware is contained in our special catalog "Distinctive Garage Door Equipment," copy of which will be sent upon request.

R-W Vanishing House Door Hardware

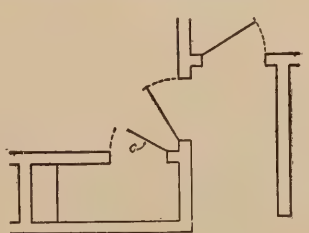


The above illustration shows vanishing doors which operate upon R-W hangers and track. The utility and ornamental possibilities of having these doors vanish into the wall instead of swinging into the room are obvious. The doors interfere in no way with draperies, furniture, or fixtures of the home.

The wide opening between two rooms, which can be completely closed when desired, gives an effect of spaciousness which is most pleasing.

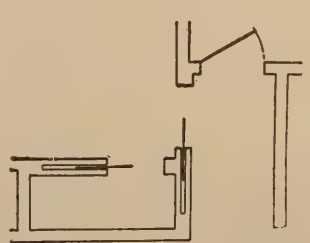
The use of vanishing doors is now becoming more general than ever before. Space is one of the most desired features in the bungalow, apartment or house and architects are taking advantage of the space saving features, which vanishing doors permit, and are specifying them in their plans.

Space Saving Feature



The plan to the left shows three swinging doors, two of which open toward each other. These could be improved by the installation of vanishing doors, as illustrated below.

The occupants of thousands of apartments, particularly in our larger cities, where space is at a premium, have found it necessary to substitute hanging drapes in places like this, where closet doors interfere with access to the closet.

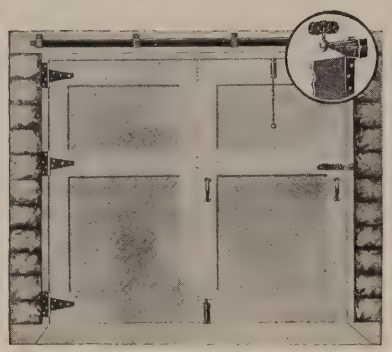


Folding-Sliding Garage Door Equipment

Made By

SHARON HARDWARE MANUFACTURING CO.

SHARON, PENN.



TWO DOOR EQUIPMENT
Sharon No. 9 Garage or Barn Door Hanger
PATENTED



THREE DOOR EQUIPMENT
Sharon No. 9 Garage or Barn Door Hanger
PATENTED



FOUR DOOR EQUIPMENT
(No Center Post Required)
Sharon No. 9 Garage or Barn Door Hanger
PATENTED

The Sharon No. 9 Garage and Barn Door Equipments illustrated on this page are fully protected by patents allowed and pending, all patents covering this equipment being either owned, or controlled, by the Sharon Hardware Mfg. Co.

Distinctive Features

The five outstanding features of the Sharon Method of hanging garage and barn doors are:

No. 1. A Double Swivel Hanger which permits a pair of doors hinged together and to one jamb to be supported by said hanger in such a manner that the doors will fold back parallel with the opening, giving full use of the entrance.

No. 2. Sharon No. 9 Garage Door Hanger is so constructed that it eliminates the necessity of built-out track arrangements—the track being applied directly to the building.

No. 3. The Hanger in closing the doors operates back of the edge of the door to which it is attached, making it convenient to use **"2 pairs of doors"** hinged together and supported by Sharon No. 9 Garage Door Hanger **in one opening,** giving full width of the opening without the necessity of a center post.

No. 4. In applying the track directly to the building, it permits the use of standard Trolley Track and Brackets, eliminating the necessity of carrying special length brackets for individual jobs or the figuring of the angle at which the doors will work to best advantage.

No. 5. The Hanger wheels are solid steel, lathe turned, running on an axle surrounded by case hardened roller bearings well greased. The swivel runs on ¼" ball bearings.

There is an adjustment on the hanger which will allow the adjustment of the doors to take care of approximately 1½" sag. A special hook type bolt which governs the swing of the doors enables the hanger to be used either as a right or left hanger by moving the hook of the bolt from one side to the other of the arm. This bolt is also a connecting link between the arm which takes care of the thickness of the doors and the drop strap which supports them.

Track

The track required is equal to the width of the 2 doors to which the hanger is attached, that is, on a 2 door opening an 8′ opening would require 8 feet of track, and on a 3 door opening where the hanger is attached to the pair of doors and a single entrance door to the opposite jamb the length of track required is equal to the width of that pair of doors, that is, a 9′ opening with 3 doors would require 6 feet of track. Standard Trolley Track is used with this equipment.

Brackets

The bracket is exactly the same as used to support any trolley track on a straight runway.

Special Points

No. 1. Folds doors right or left—the same Hanger does either.

No. 2. No built-out arrangement or special bracket—standard Trolley Track and Brackets are used.

No. 3. No angles to figure for individual jobs.

No. 4. Folds doors back parallel with the opening—**do not confuse this with a right angle.**

Other Products

Other products of the Sharon Hardware Mfg. Co., include all kinds of Sliding and Folding Door Equipment, Butts and Hinges, plain and ornamental; House Hardware; Wrought Steel and Brass Cabinet Hardware; Cellar and Screen Window Hardware, etc. Write for complete catalog.

For further details and literature, write to: **SHARON HARDWARE MANUFACTURING CO., Sharon, Pa.**

Stanley Garage Door Hardware

Manufactured By

THE STANLEY WORKS

NEW BRITAIN, CONN.

BRANCH OFFICES

New York, N. Y., 100 Lafayette St. Chicago, Ill., 73 E. Lake St.

Los Angeles, Cal. San Francisco, Cal. Seattle, Wash.

Products

Garage Door Hardware Sets, including Hinges, Bolts, Latches, Handles and Door Holders.

For Builders' Hardware see page 261.

Design

The Stanley Works were the original manufacturers of hardware especially designed for Garage Doors.

Ball Bearing Hinges were designed to eliminate wear on the joint of the hinge and to insure ease of operation.

Garage Sets

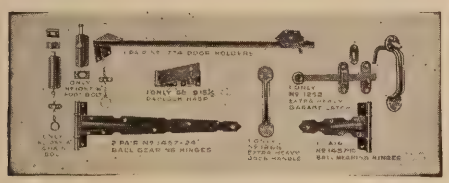
Stanley Garage Hardware is regularly packed in complete sets to meet the requirements of various types of garage doors. They are packed complete with screws and bolts.



Stanley Garage Hardware Set No. 1785

Two pairs of 24 inch and one pair of 10 inch Ball Bearing Hinges makes this a very attractive and serviceable set for a well designed garage.

Articles comprising Set No. 1785.



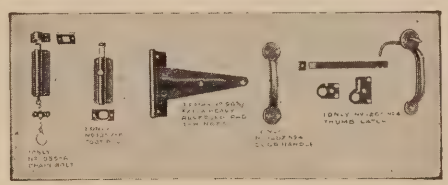


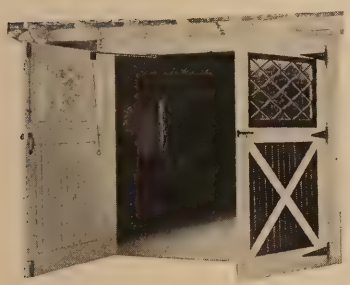
Stanley Garage Hardware Set No. 1776

For use on light or medium weight Garage Doors.

This set does not include the door holders No. 1774.

Articles comprising Set No. 1776.

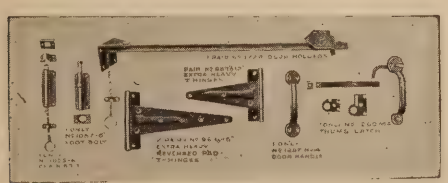




Stanley Garage Hardware Set No. 1777

Two pairs of 16 inch and one pair of 12 inch extra heavy hinges make this a very satisfactory set. The door holders add to its convenience.

Articles comprising Set No. 1777.



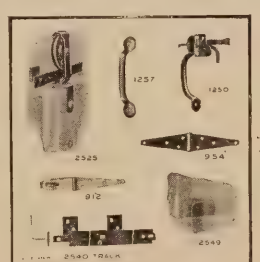


Stanley Garage Hardware Set for Rolling Doors No. 2505.

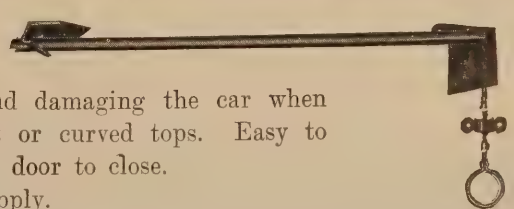
The hardware in the set can be arranged to make three combinations of doors.

Articles comprising Set No. 2505.

Very little floor space is necessary. In all combinations the doors roll along the side wall. One combination only is shown.



Stanley Wrought Steel Garage Door Holders No. 1774



A necessity for every garage. Prevent doors from slamming and damaging the car when entering or leaving the garage. Can be used on doors with straight or curved tops. Easy to apply. A slight pull on the chain disengages the holder allowing the door to close.

Bar is 30 inches long. Packed one pair in a package, ready to apply.

Automatic Electric Doors for the Private Residence Garage

Manufactured by

ELECTRIC DOOR CORPORATION

ITHACA, N. Y.

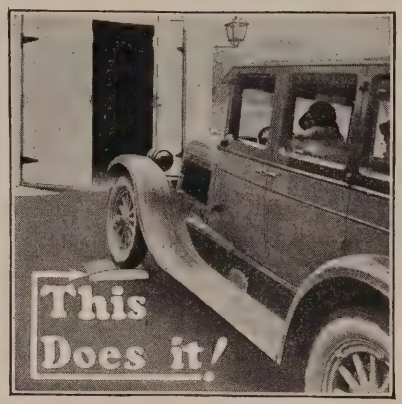
Product

Electric Mechanism for Opening and Closing Garage Doors without getting out of the car.

Special Utility to Builders

Builders find that new homes equipped with Electric Doors quickly attract prospective buyers. They drive up, the garage doors swing open, and they are immediately impressed with the fact that here is a really modern home. They are delighted to find this electric servant will work for them for life at wages of 2 cents per month.

As day after day the Electric Door performs its service it soon becomes one of the most appreciated features in a modern residence. Men like the promptness and efficiency of its service. Women save their clothes in bad weather, never have to struggle with the doors, and particularly enjoy it when they have a guest. The garage looks better when its doors are not left gaping open. It permits adequate heating in winter. The Electric Door marks a modern home.



What It Is, and Does

The Electric Door opens or closes by the pressure of a car wheel on a ground plate switch in the driveway, or by a hand push button, if desired, mounted on a post at the side of the drive. A push button switch is also located in the garage to open or close the doors when the car is inside. If there is no side door for entrance and exit this switch is located outside on the wall of the garage. The Electric Door is particularly designed for the residence garage, but can be applied to the public garage or to industrial doors.

It is extremely simple, rugged, and foolproof, and is powerful enough to hold swinging doors in any wind or sweep back any ordinary snowfall. It operates in any weather, permits adequate heating of the garage, and can be operated from inside a closed car without opening the window. It never requires any lubrication, in fact it must not be oiled. The ground plate is not affected by rain, mud, ice, or snow; is self-draining and self-cleaning. The switch mechanism is rustproof and waterproof.

Standard Type

The standard installation is for outwardly swinging doors, as this type, being the simplest mechanically, has been found to be the most reliable. The ordinary disadvantages of the swinging door are overcome by the electric mechanism which holds them positively, and this type of door has no track wheels to bind and gives more room in the garage. It can also be used on doors swinging inward by being placed outside on projecting timbers under a small roof. An arc of 105° to 110° should be allowed for the swing of the doors as it is best to have them go beyond the perpendicular when fully opened.

Locking

No locks, bolts, or similar hardware of any kind should be placed on the doors. If a positive lock is desired an ordinary push button switch may be placed conveniently in any part of the house, which will cut off the garage circuit and leave the mechanism dead. If it is especially desired to lock the doors while the owner is out with the car, the hand push button on a post or wall should be installed instead of the ground plate type, and a key lock switch used. The ground plate type with inside locking is generally preferred.

Installation

Installation is simple and the average should not cost more than $15.00 to $25.00. Where a concrete drive is to be laid a hole should be left for the ground plate, the dimensions of which are 18¾x16 in. The long dimension should be across the driveway. It is generally more convenient to place the ground plate on the left-hand side of the driveway looking toward the garage so that the driver can see it as he drives in. It should be at least 20 ft., preferably 30 ft., from the doors. If the length of the drive-way will not permit this, the hand push button switches should be located so that the driver can see the doors while operating them.

The weight of the doors does not matter as the mechanism will operate anything that can be swung by hand, but they should be properly hung so that they will swing and close easily. Doors should be cut off 1 in. clear at bottom to allow for our special copper weatherstrip. This takes care of any sagging of the doors and jamming because of ice, frozen mud, or stones. Door jamb strips back of the doors should be omitted as they serve no purpose and tend to chew the doors when the doors warp. On new construction it is desirable to have a short concrete ramp from sill to driveway about 18 in. to 2 ft. in length with a slope of 2 in. to 1 ft.

The mechanism itself, including a ⅛ hp. motor, is all assembled before being shipped and should be placed and supported as shown in diagram, between two 2x4's 20 in. apart. Weight of mechanism inside garage is about 70 lbs.

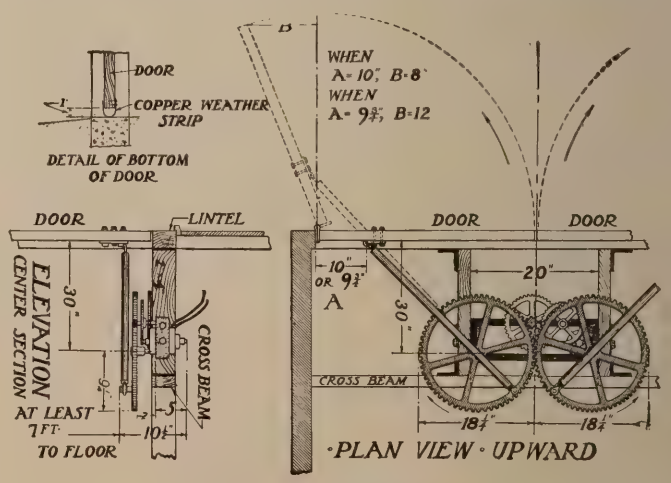
Hinges used as sockets for the arms permit attaching the arms at various levels and should be bolted through the doors, not just put on with screws. The mechanism can be disconnected from the doors by merely lifting the arms from the sockets.

No special power circuit required; operates from any lighting circuit, 110 volts a-c. or d-c., any cycle. Other voltage $10.00 extra.

Full directions for installing sent with each shipment.

Prices

Electric Door operating mechanism complete, including switches, fuse box, weatherstrips, all hardware, with 40 ft. of lead armored cable and ground plate control, $125.00; same, but with hand button in place of ground plate, $120.00; same, but with both hand button and ground plate control and duplicate cables, $135.00. All prices f. o. b. Ithaca, N. Y.



DETAILS OF MECHANISM

For further details and literature, write to: ELECTRIC DOOR CORPORATION, Ithaca, N. Y.

QUICKLOCK—The Simple, Safe, Satisfactory Garage Lock

Made By

LURIE PRODUCTS

3218 Montrose Ave., Chicago

CLOSES AUTOMATICALLY

OPENS WITH A KEY



Product

A new type of Garage Lock, particularly adapted for swinging doors, that can be installed in a few minutes, and that opens with a key from the outside, and locks automatically by simply closing doors from outside.

Construction

Quicklock is sturdily built of the best materials and is mechanically perfect. There are only a few, simple parts and nothing complicated to get out of order. It always works.

Operation

When key is inserted in lock from outside and given a right turn there is an upward movement of the entire assembly of tie rods and connecting plate which releases the pawls or gripper teeth at top and bottom and the doors are unlocked.

When doors are closed tightly the gripper teeth, coming in contact with U-bracket at top and floor plate at bottom, raise just enough to ride over them and fall by gravity into locked position.

Advantages

Locks doors automatically top and bottom by simply pushing doors shut from outside.

Unlocks doors instantly from outside by a simple turn of the key. Maintains its locking position by gravity—cannot be opened from outside except with proper key.

Eliminates chain or rod pull bolts at top and foot push bolts at bottom of doors.

Draws doors tightly together when locked and makes them close snugly.

The flexible floor plate permits of closing and locking doors even when jammed with snow, ice or mud.

Eliminates the small side entrance door in garages, thus allowing more inside wall or window space, or storage space, and saving on cost of construction.

Permits taking car out of garage or locking it up in one-third the usual time when in a hurry, because one simple turn of key unlocks door and pushing them closed automatically locks them.

Discourages the practice of leaving garage doors open, or closing them without locking securely, when in a hurry, and perhaps suffering a loss of tools, tires, or other accessories kept in the garage.

Easily and quickly installed by anyone—does not require locksmith or mechanic to put together.

The Useless Side Door

Most garage are built with a small entrance door in the side wall or in front alongside the car entrance doors, and sometimes placed in the large door itself, the principal use of this door being to afford an entrance so that the big door can be opened or closed from the inside.

This is usually accomplished through the use of bolts at the top and bottom of doors, or a crossbar or rod across the inside of the big doors.

Where QUICKLOCK is used the small door is no longer necessary and is becoming obsolete because the only real reason for its existence has gone.

Where to Buy

Quicklock is patented and is on sale in hardware stores.

Price

Complete, with full instructions telling how to install, $6.75.

For further details and literature, write to: **LURIE PRODUCTS, 3218 Montrose Ave., Chicago**

STAR LITTER and FEED CARRIERS

Made By

HUNT-HELM-FERRIS & CO., Inc.

HARVARD, ILLINOIS

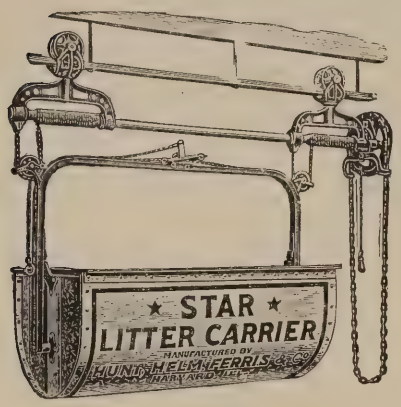
ALBANY, N. Y.
Industrial Bldg.

SAN FRANCISCO, CALIF.
383 Brannan St.

PHILADELPHIA, PA., 22nd and Arch Streets

LOS ANGELES, CALIF.
1811 East 7th St.

MINNEAPOLIS, MINN.
422 Stinson Blvd.



No. 333 Star Litter Carrier

No. 333 Star Litter Carrier runs on a rigid rail hung overhead in the barn. Outside, the track is hung from a swinging boom often as long as 40 feet. That gives a wide dumping radius. There is a raising and lowering device on the carrier so the tub can be lowered for filling. It is dumped by pulling a trip chain. Roller bearings throughout.

No. 405 Star Litter Carrier runs on a rod or steel cable track both inside and outside the barn. It dumps automatically outside wherever the trip block is set on the track, and a spring bumper chain automatically returns the empty carrier to the barn. This carrier has no hoisting attachment. Equipped with roller bearings.

No. 592 Star Litter Carrier is a combination of the first two in that it runs on a rod track outside giving it the automatic dump and return feature, and on a rigid track inside the barn. With this arrangement the carrier always remains stationary while being loaded. It has a hoisting device so that the tub can be lowered while being filled. Equipped with roller bearings.

Products

We manufacture a full line of litter and feed carriers along with all the attachments to make a complete job. Three of the most popular models are shown and described. Each has its place depending on the particular requirements of each purchaser. For Garage Hardware see pages 264-65.

Uses

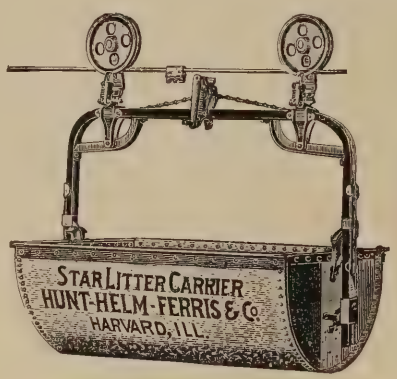
As the name indicates, STAR Litter Carriers are used to remove the daily accumulation of litter in the barn. They run on an overhead track so that the same load is propelled with much less effort than by any other means such as a wheelbarrow or truck. The track runs between the rows of stalls; the litter is loaded into the tub from either side and the carrier is pushed out to the dump pile. Some of the carriers dump and return to the barn automatically. The tubs can be detached and tubs to carry feed may be substituted; or carriers designed for feed only may be had.

Advantages

STAR Litter Carriers make easy the most tedious and unpleasant job around the barn. They help to keep the barn clean at much less cost for labor. They are inexpensive, easy to operate for they are equipped with roller bearings, and last a lifetime.

Engineering Service

We have prepared a book of plans for barns of every description giving many detailed helps to the contractor and owner. This is free for the asking. Our Engineering Department is prepared to make special barn plans and to work out and furnish blue prints for any installation of litter or feed carriers that may be desired. These carriers can be installed in old barns as well as in new. We urge you to write us for a catalog describing this equipment.



No. 405 Star Litter Carrier

Guarantee

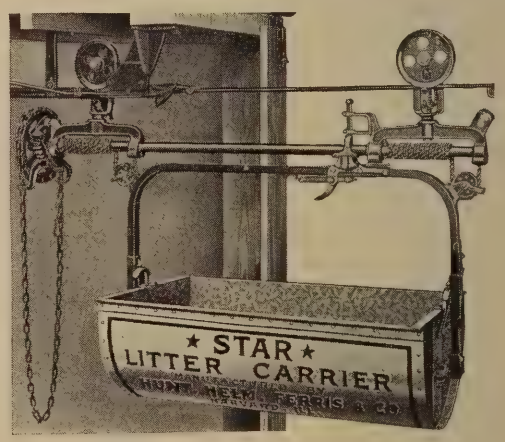
We know our goods to be the best that money, brains and "know how" can put together hence this iron-clad, binding guarantee: We absolutely and positively guarantee all goods manufactured by us to give satisfaction to the user in every respect. This guarantee applies not only to workmanship and material but to construction and operation as well. Should any article manufactured by us prove defective, notify us and we will replace same without one penny's cost to you.

SPECIFICATIONS—STAR LITTER CARRIERS

ALL STAR LITTER CARRIERS HAVE ROLLER BEARINGS
FINISH—All sizes (except No. 693) are furnished in Gray Enamel

No.	Track	Dim of Tub	Capacity	Wt. Complete
333	Rigid	26″Wx41″Lx19″D	No. 6--10 bu.	145 lbs.
	Double Angle	34″Wx41″Lx24″D	No. 8--12 bu.	180 lbs.
405	Rod or Cable	26″Wx41″Lx14″D	6 bu.	110 lbs.
592	Rod outside, Rigid inside	26″Wx41″Lx14″D	6 bu.	160 lbs.
930	Rigid	26″Wx41″Lx19″D	No. 6--10 bu.	195 lbs.
	Double Angle	34″Wx41″Lx24″D	No. 8--12 bu.	230 lbs.
693	Rod outside, Rigid inside	26″Wx41″Lx14″D	6 bu.	110 lbs.

NOTE: Three kinds of track mentioned consist of rigid double angle track made of two angle irons riveted together, rod track of round steel rod stretched taut; double oval track made from flat steel bar with both edges rolled over to give rigidity and a smooth running surface for tracker wheels.



No. 592 Star Litter Carrier

For further details and literature, write to: **HUNT-HELM-FERRIS & CO.** Harvard, Ill., or to nearest branch

Star Stalls and Stanchions

STAR BARN EQUIPMENT

Star Litter Carriers

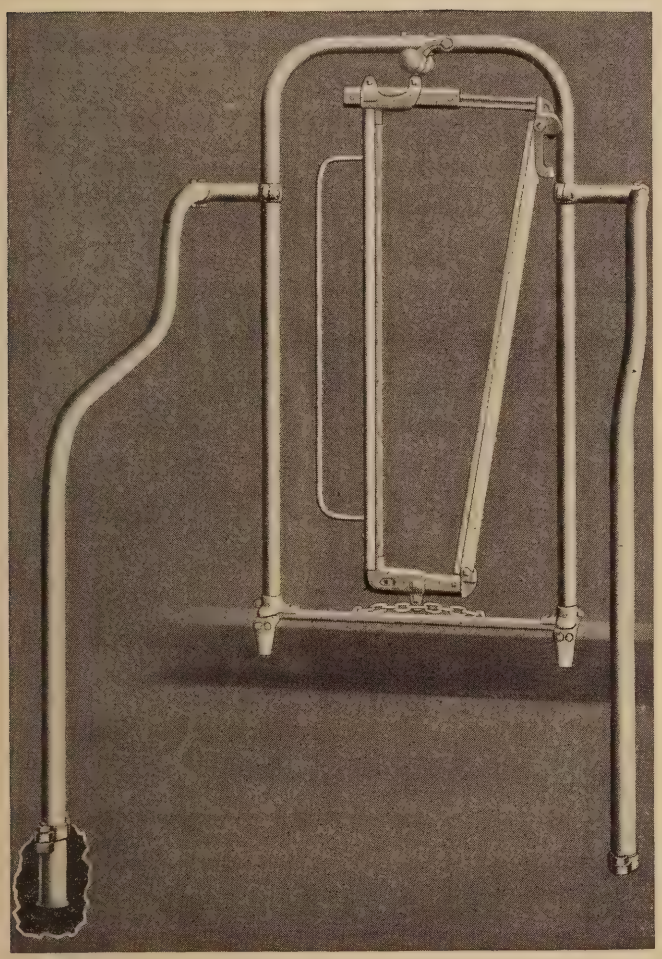
ALBANY, N. Y.
Industrial Bldg.
MINNEAPOLIS, MINN.
422 Stinson Blvd.

Made by

HUNT-HELM-FERRIS & CO., Inc.

HARVARD, ILLINOIS
PHILADELPHIA, PA., 22nd and Arch Sts.

SAN FRANCISCO, CALIF.
383 Brannan St.
LOS ANGELES, CALIF.
1811 East 7th St.



STAR STEEL STALL

Products

Star Barn Equipment for all types of barns, which includes Steel Cow Stalls; Stanchions; Manger Divisions; Animal Pens; Automatic Water Bowls; Litter Carriers; Feed Carriers; Door Hangers and Tracks; Garage Door Sets; Hay Carriers, Forks and Slings; Hoists; Ventilators; Overhead Carrying Systems.

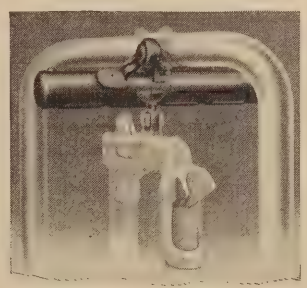
For Garage Hardware see pages 264-265.

Co-operative Service

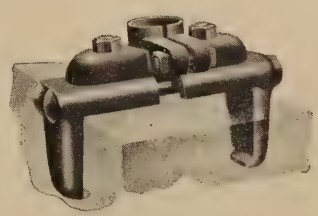
We maintain an architectural and drafting department and are always glad to give advice on any problem of barn construction or on the installation of equipment. This service is free of charge. We have representatives in all parts of the country who will gladly help you measure up any barn and give you a complete estimate on the cost of equipment.

Book of Barn Plans—Free

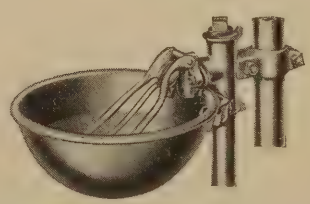
We have prepared a book of plans for barns of every description, giving many detailed helps to the contractor and owner. Book sent free upon request. We also offer blue prints and special barn plans without charge. Make use of this free service.



STAR ALIGNMENT DEVICE. A clean stall makes a clean cow. This exclusive STAR feature keeps every cow in line to the gutter. The adjustment is made instantly after the cow is in the stall. No tools needed. Just raise the lever and move the stanchion forward or backward. Five different positions in 11½ inches.



STAR CURB CLAMP. This simple device simplifies installation. Does away with anchors or templates. Enables you to go ahead with your concrete or cement work and finish the job before the equipment reaches you. Simply drop the curb clamps over the curb and tighten the bolts. Then bolt the stall arches together and the job is done.



STAR WATER BOWLS. Automatic in operation. Furnished to attach to steel or wood stalls.

Unit System Is An Exclusive Feature

STAR Stalls are built individually. Each stall is a separate unit and connects with the next on either side. You can install as many as you need and you can always add more. This STAR feature saves much in installation expense. The Stalls go into the barn just as they leave the factory.

Star Stall Arch

Made of one continuous piece of steel pipe. Only the highest grade, full weight, butt welted steam pipe is used. Each piece tested.

Star One-Hand Lock

Four big advantages. The STAR Stanchion is easily opened with one hand. The fork or crotch device on the lock straddles the side of the stall arch holding the stanchion in place. The guide of the One-Hand Lock removes all strain on the hinge. The double latch makes it absolutely cowproof.

Star Stanchion Adjustments

You can adjust the width of a STAR Stanchion instantly from 5 to 9 inches. Stanchion can be adjusted to fit the neck of a bull or small calf.

Star Wood Lining

The STAR Stanchion has a wood lining which is imbedded—an exclusive feature. It is not merely hung on the stanchion but is forced into the U-bar and can not possibly be loosened by the cattle.

Star Automatic Sure Stop

This device keeps the cow from putting her head in space at side of stanchion. It is always in place but never in the way.

Star Cement Anchors

Used to secure stall partitions which otherwise would have to be permanently imbedded in concrete.

Star Permanent Finish

All Barn equipment finished in special gray enamel, thoroughly baked on. Most attractive and lasting appearance.

Star Steel Pens

Bull, calf, cow and hog pens are all-steel pipe with all clamps and fittings of best malleable iron, shipped in panels.

For further details and literature, write to: **HUNT-HELM-FERRIS & CO., Inc.** Harvard, Illinois

SAMSON SPOT SASH CORD

Made by

SAMSON CORDAGE WORKS

88 Broad St., Boston, Mass.

Products:

The Samson Cordage Works manufactures Braided Cord in all sizes and colors, for all purposes, including Samson Spot Sash Cord and other Sash Cords, Clothes Line, Awning Line, Ventilator Cord, Curtain and Shade Cord, Mason's Line, Dumbwaiter Rope, Etc., also Cotton Twines.

Advantages:

Samson Spot Cord is made of extra quality cotton yarn, smoothly and firmly braided, carefully inspected, and guaranteed free from imperfections of braid or finish.



Samson Trade Mark

It will wear much longer than ordinary sash cord, made of inferior yarn, roughly braided, and poorly finished, which wears out by abrasion on the pulley.

The cost of replacing a single broken window cord is often more than the difference in first cost between Samson Spot Sash Cord and the cheapest for an entire house.

Identifying Marks:

In addition to the labels on each hank bearing the trademark of Samson and the Lion, Spot Cord is marked with colored spots, which are a means of identification after the label is removed, and prevent substitution of inferior cord. The spots may be of any color and are used only with this quality of cord.

Avoid Adulterated Cord:

Much of the cheap cord offered for sale contains a large loaded center which is put in to increase the weight of the cord and the price per foot.

This center stiffens the cord and makes it wear out quickly in running over the pulleys.

The danger of getting such cord can be avoided by specifying Samson Spot Cord which can be easily distinguished by the trademark.

Specifications:

Specifications should read: "Windows to be hung with Samson Spot Cord; size of cord and size of pulleys to agree with manufacturer's list." (See illustrations at bottom of page).

SAMSON SPOT CORD

The number indicates the diameter in 32ds of an inch.



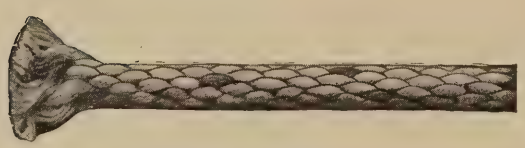
Size No. 6. Diam. 3/16 in.

About 18 lbs. per doz.; about 66 ft. per lb.
Suitable for weights of less than 5 lbs.
Minimum diam. of pulley allowable 1½ in.



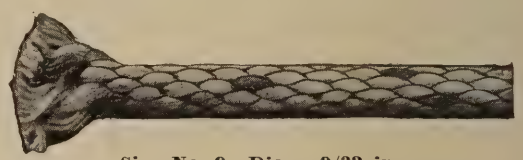
Size No. 7. Diam. 7/32 in.

About 22 lbs. per doz.; about 55 ft. per lb.
Suitable for weights from 5 to 12 lbs.
Minimum diam. of pulley allowable 1¾ in.



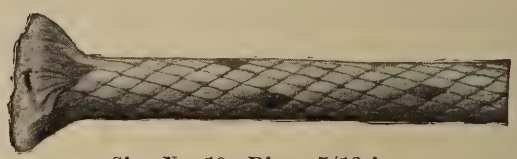
Size No. 8. Diam. 1/4 in.

About 27 lbs. per doz.; about 44 ft. per lb.
Suitable for weights from 12 to 20 lbs.
Minimum diam. of pulley allowable 2 in.



Size No. 9. Diam. 9/32 in.

About 33 lbs. per doz.; about 36 ft. per lb.
Suitable for weights from 20 to 30 lbs.
Minimum diam. of pulley allowable 2¼ in.



Size No. 10. Diam. 5/16 in.

About 44 lbs. per doz.; about 27 ft. per lb.
Suitable for weights from 30 to 40 lbs.
Minimum diam. of pulley allowable 2½ in.



Size No. 12. Diam. 3/8 in.

About 60 lbs. per doz.; about 20 ft. per lb.
Suitable for weights from 40 to 50 lbs.
Minimum diam. of pulley allowable 3 in.



ONE HANK SAMSON SPOT CORD

For further details and literature, write to: **SAMSON CORDAGE WORKS, Boston, Mass.**

COLONIAL HEAD THROAT & DAMPER

"GLO-HOT" ELECTRIC GRATE and

EVERYTHING FOR THE FIREPLACE: GRATES, ANDIRONS, FIRESETS, FENDERS, HOODS, SCREENS, ASH TRAPS, ASH PIT DOORS, ETC.

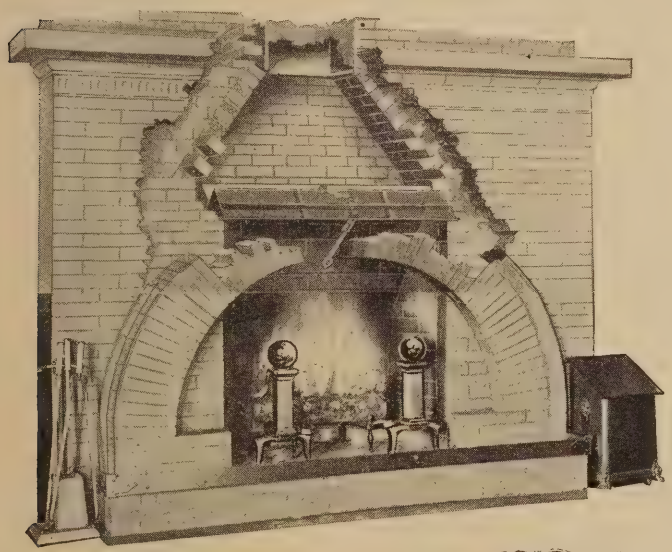
Manufactured by

COLONIAL FIREPLACE COMPANY

4652 Roosevelt Road, Chicago.

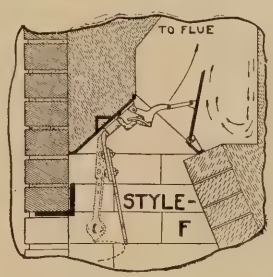
Materials and Construction:

The Colonial Head Throat and Damper is built of the best gray iron castings securely bolted together and reinforced with a steel angle bar. It is rigid, extra heavy, and able to sustain great weight, yet designed and constructed so as to allow for the movement of expansion without disturbing the outer work. This prevents the face of the fireplace from cracking.



The steel reinforcing angle bar sets half way up the sloping front of the Damper. The ledge which it forms furnishes a footing on which to build the common brick backing and on which to anchor the facing.

A mason experienced in fireplace building will spend much more time in forming the Throat than the cost of the Colonial Head. With it an experienced workman cannot build wrong at the vital point. The Colonial Head sets above the bottom of the span over opening. This saves time because the fire brick need not come to exact levels.



NEW STYLE F

Sets high or low in the fireplace. Operating lever which may be lengthened, swings in arc under fireplace opening.

Allows for Expansion:

The only Damper made which provides for heat expansion. Embodies thirty years of practical experience in erecting fireplaces throughout the United States. We found that one-piece iron Dampers frequently cracked the facing of the Fireplace because of expansion. Therefore, we made the Colonial Damper in sections.

Saves fuel, prevents smoky fireplaces and give more heat.

Easy to Operate—Dependable:

Damper door in Style A-B-C may be adjusted to a fraction of an inch (Style E-F 4 positions) to meet any weather condition. The position of the Damper door in relation to smoke shelf prevents down drafts. Colonial Damper may be used in any style of fireplace —stone or marble, brick, tile or wood, arched or square opening.

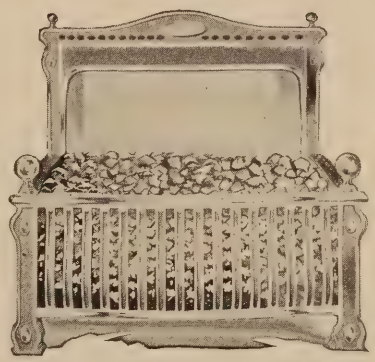
Styles and Sizes:

The Colonial Damper comes in five styles of operation, twelve sizes each so as to meet every condition of construction.

"Glo-Hot" Electric Grate:

(Odorless and Clean)

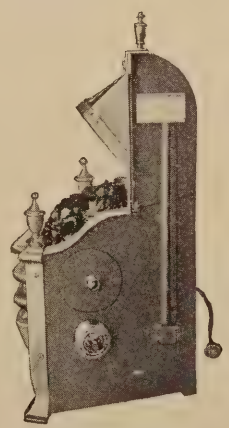
Gives real fire effect and heats at the same time. The New "Glo-Bar" heating element is the perfected economical way to use electric current for heat. The scientifically designed copper reflector throws all the heat rays straight into the room. The old English grate of polished steel and iron with solid brass ornaments and deep chested grate space for the colored glass coals is unusually attractive.



Number G H 253, three finishes: Black and Polished Steel, Old Brass, and Statuary Bronze.

Looks Like Live Coals and Really Heats:

At the first snap of the switch, the grate is flooded with the life-like flicker of glowing coals. At the second snap of the switch, as if by magic, the heat flows out from the "Glo-Bar" heat unit concealed under the hood of this beautiful old English Grate.

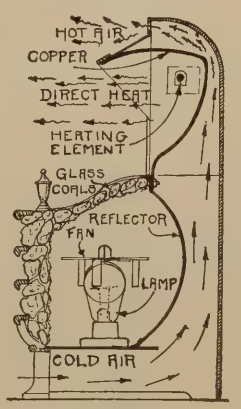


Showing switch, plug and wiring connection. Circular door (on both sides) gives access to electric bulbs and fans.

No Flues Necessary:

While the genuine fireplace with its flue and enchanting play of flame holds full sway, there are, nevertheless, many homes new and old, where no flues are allowed for in the plans. The "Glo-Hot" Electric Grate meets this need. It gives the fascinating flicker as of real fire in glowing coals and HEATS as well, without requiring any flue. It comes closer to the effect of a real fireplace than ever before attained.

The cost of operation is low compared with any type of auxiliary heating where a flue is used for the escape of smoke or gases and consequently waste of heat that goes up the chimney.



Cross Section View showing details of construction and air space between copper reflector and back. Steady circulation drives hot air into the room.

Styles and Sizes:

Three Styles. Standard Size 1,000 Watt—110 Volt. Also 500 Watt—110 Volt—may be connected to ordinary house lighting circuit.

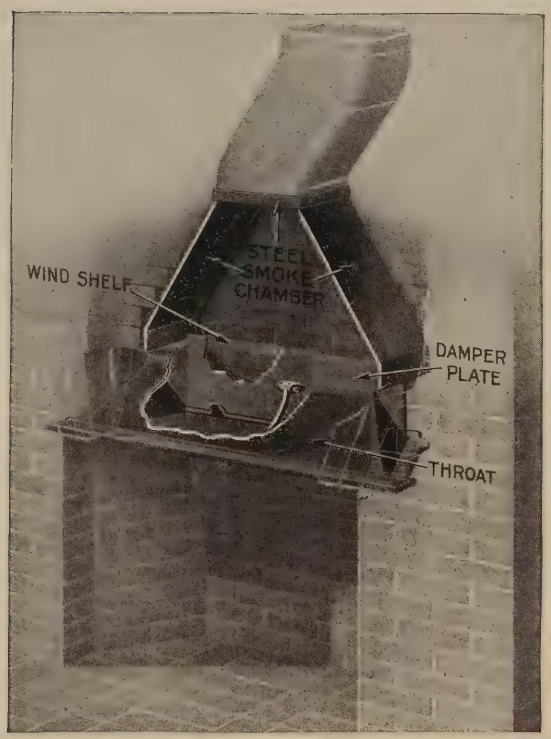
For further details and literature, write to: COLONIAL FIREPLACE COMPANY **4652 Roosevelt Road CHICAGO**

COVERT FIREPLACE SPECIALTIES

Made By

THE H. W. COVERT COMPANY

137 East 46th Street, New York



Covert Specialities Assembled in Fireplace

How to Build an Efficient Fireplace:

There are three vital parts in fireplace construction—the Throat, Smoke Chamber and Flue. If these are properly constructed, the fireplace will function satisfactorily in every way, barring the influence that nearby high buildings or high walls may have upon it.

Throat:

The construction of this most important part of a fireplace is simplified through the use of a Covert Damper.

In addition to acting as a support for the arch brick, Covert Dampers provide a properly designed, smooth and substantial Throat that will lead all smoke and gases up the flue. It is provided with a valve to control draft. Covert construction secures the ledge or windshelf at the back of the throat which is important in checking down drafts.

Smoke Chamber:

It is important that the side walls of the Smoke Chamber, which is above the throat, should be smooth and should narrow from bottom to top where the flue proper begins, at the proper angle to afford a smooth chamber or compartment through which all smoke and hot gases will travel into the flue without being retarded.

This construction is best accomplished by using the Covert Smoke Chamber which is a steel form affording perfectly smooth side walls sloped at the proper angle, and with a collar at the top upon which the tile flue is started.

The use of this form saves considerable in mason's time in forming properly sloped walls in brick work, besides adding greatly to the efficiency of the fireplace.

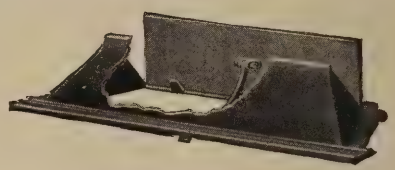
Flue:

The flue should be properly proportioned to the size of the fireplace opening. A safe rule to follow in fireplace construction is to make the cross sectional area of the inside of the flue lining one-tenth to one-twelfth the area of the fireplace opening. It is always better to have the flue too large rather than too small.

Size of Opening:

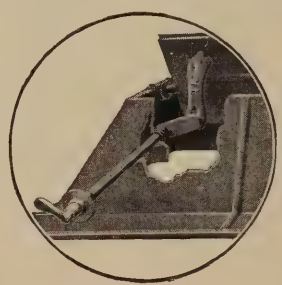
A height of 30 inches is sufficient for fireplaces up to 48 inches wide with a proportionate increase in height for wider fireplaces. The depth should be 18 or 20 inches for fireplaces up to 48 inches wide and never more than 24 inches deep for wider fireplaces. The back of the fireplace should be narrower than the front, the side walls sloping towards the back wall at a ratio of about 5 inches to each foot of depth.

Covert Improved Damper:

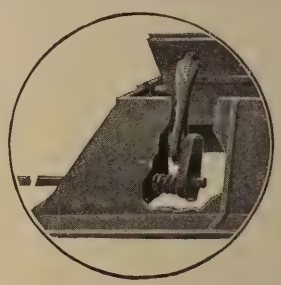


This damper is very popular with contractors and builders because of its simplicity and the excellence of its design and construction. The valve plate is made of unbreakable steel, is easily removable, and is controlled by a simple ratchet placed just under the center of the arch. The damper is made in five convenient sizes up to 5 feet.

Covert "Face or Side Control" Damper:



Front Operation



Side Operation

This damper is designed to operate from either the front or side of the fireplace by a single turn of a polished brass knob. The mechanism is very simple, having no worm or gear. All parts are easy to get at. It is made in all sizes up to four feet.

Covert Old Style Dampers:

These are made in four different depths up to seven feet long for very large fireplaces. All shown in our complete catalog.

Covert Ash Dump:

For installation in the hearth to permit ashes to be dropped through pit into cellar.

Covert Cleanout Door:

For installing in cellar wall to permit of easy removal of ashes from pit.

Donley Devices for Making Convenient Homes

Made by

THE DONLEY BROTHERS CO.

13923 Miles Avenue, Cleveland, O.

Products

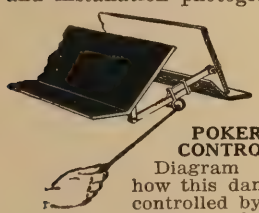
Donley Devices include Andirons, Ash Dumps, Basement Columns, Basement Windows (Steel), Clean-Out Doors, Clothes Posts (Metal), Coal Chutes (Window and Grade Line), Dampers, Electric Meter Boxes, Fire Baskets, Garbage Receivers, and Package Receivers.

DONLEY DEVICES
Complete the Home

Fireplace Dampers

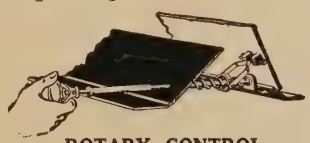


Donley Dampers make successful Fireplaces by preventing smoking and smudging and elimination of waste of heat up the chimney. Damper provides smooth, metal throat for the fireplace as well as perfect draft control. Two types of control: Rotary, controlled by operating rod through metal front, or Poker control. Complete installation instructions accompany each Damper. For the following widths of Fireplace opening: 24, 30, 36, 42, 48, 54 and 60 inches. The Donley Book of Fireplaces containing many Fireplace designs, construction plans and installation photographs sent upon request.



POKER CONTROL

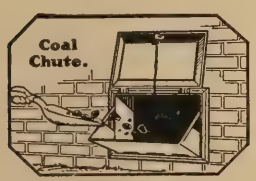
Diagram shows how this damper is controlled by hooking an ordinary poker into ring and pushing or pulling until desired position is reached.



ROTARY CONTROL

To open or close this damper you rotate the knob that protrudes thru mantel front. Diagram shows mechanism.

Coal Chutes

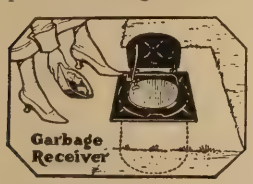


Donley Coal Chutes protect building against damage during coal delivery. They are burglar-proof and have an automatic latch that is released by chain from within, without entering coal bin.

Frames are of cast-iron, doors of heavy gauge steel or heavy meshed glass with steel protecting shield.

Made in several sizes. Also make Grade-line Chute with special drainage feature for low-set or terraced buildings.

Garbage Receivers



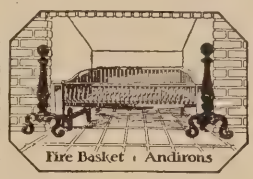
Located underground near kitchen entrance or beneath floor of rear porch, the Donley Garbage Receiver is inconspicuous, fly-proof, dog-proof and sanitary. Consists of inner container enclosed in outer water-tight cylinder, both of heavy gauge, galvanized metal. The service lid of Parkerized rust-proof steel is lifted by foot lever, leaving both hands free to carry dishes.

Metal Clothes Posts



These are made of 2¾-inch diameter reclaimed pipe, painted, with cross cleat inserted near top for attaching clothes line. Posts are 9½ feet long and are usually placed in ground at depth of 2½ feet with or without concrete filling. They cost less than wooden posts and have every advantage of strength, neatness, resistance to weather, decay and rough usage. Ornamental wood top furnished when desired.

Fire Baskets and Andirons

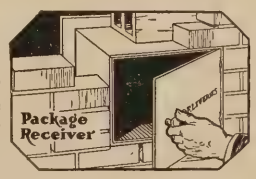


Donley Fire Baskets combine beauty and utility. The simple, graceful lines harmonize with any decorative scheme and its sturdy construction fits it for years of service. Ends are easily lifted out to permit burning of logs. Designed to fit properly shaped hearth. Supplied in 24, 28, 30, 34 and 40 inch lengths.

Donley Andirons are made in five designs and three finishes with special attention to utility and sturdiness combined with grace, simplicity and the pleasing charm of modern decoration.

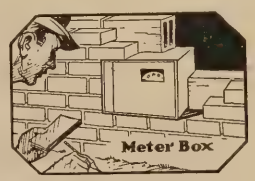
Ash Dumps: Donley Ash Dumps provide a convenient and clean method of removing ashes. Automatic Dump closes itself after ashes have been pushed through. The common dump is opened and closed with poker.

Package Receivers



A wall safe for receiving milk, groceries, etc. Automatic lock prevents removal of parcels until inner door has been opened, when outside door is automatically prepared for next delivery. Made of heavy gauge steel, fits between 16-inch center studding, is 11 inches high, 13½ inches wide and 9 inches deep. Approved by Good Housekeeping Institute.

"Outside Reading" Meter Box



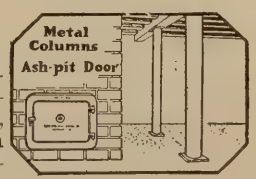
Donley Meter Box permits meter reading without entering basement, contains meter and safety switch and is installed in foundation wall. Meter read through glass panel, is 13½ inches high, 16½ inches wide, 8 inches wall depth, provided with all necessary knockout holes for wiring. Approved by Good Housekeeping Institute, Central Stations and Electrical Contractors.

Steel Basement Windows



These steel Basement Windows admit 75% more daylight and provide better ventilation than wooden windows. Frames ($\frac{3}{16}$-inch steel) are narrower and more attractive, also much stronger than wood. Will not warp, shrink, swell or rot. Welded and riveted at every possible point of strain. Strong hinges, easy action. Positive wedge-shaped lock draws frame and sash closely together when locked. Holes provided for screening. Made in four sizes for any type of construction. Sash easily removable for glazing.

Basement Columns and Clean-out Doors



Basement Columns are neat, fire-resisting, economical and easily installed. Made of reclaimed pipe, thoroughly painted and provided with cap and base. Supplied in 4 and 5-inch diameters and 6 feet, 6 feet 6-inches, 7 feet, and 7 feet 6-inch lengths.

Clean-out Doors are strong and neat construction, and close fit. Large sizes for removing ashes from pit. Small size placed at base of chimney flue for soot removal.

Ask for Complete Catalog

The Donley Catalog illustrates and describes in detail, all Donley Devices, including many not shown here. This Catalog is sent upon request. A copy of The Donley Book of Fireplaces will also be sent if specially requested.

For further details and literature, write to: **THE DONLEY BROS. CO., 13923 Miles Ave., Cleveland, Ohio**

JaXon Wood Mantels, Fire Place Specialties, etc.

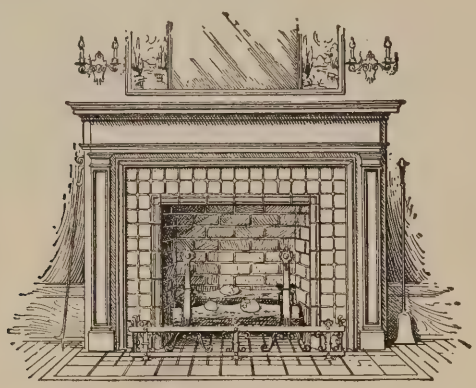
Made By

EDWIN A. JACKSON & BRO., INC.

50 Beekman St., also 65th St., Cor. Lexington Ave., New York City

Products

This Company manufactures Wood Mantel Pieces, Fire Places, Portable Basket and Electric Grates for fire-places, Andirons, Spark Screens, Chimney Dampers, Ash Dumps, Coal, Windo-shutes, Built-in and Underground Garbage Receivers, Package Receivers, some of which are illustrated and described on this page.



No. 617, is a Colonial design with panelled pilasters. Finished in three coats of white paint, or Mahogany color.

Mantel Pieces

These are furnished from stock or made to order from special designs. Our catalog (sent on request) shows many beautiful designs. By building these mantels in quantity lots, very highly developed designs, excellent materials and master workmanship can be produced at a low cost.



Majestic Package Receiver

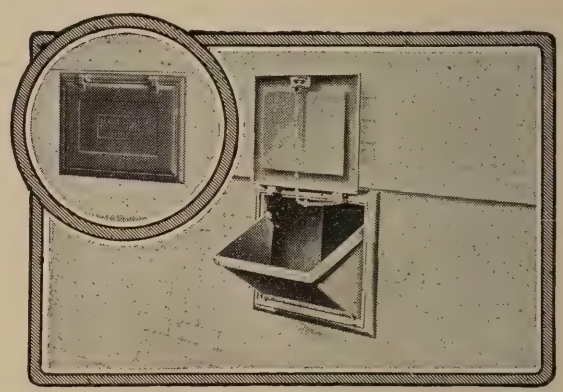
Package Receiver

This is installed in the wall for receiving milk or other commodities from delivery people, and makes a convenient, safe place in which to leave miscellaneous packages until removed by the occupants of the house. They are safe from theft or damage by the elements, or molestation by animals or insects. The package receiver consists of two cast iron frames 16¼ inches wide and 14 inches high, with inside and outside doors, connected by a steel body adjustable to the thickness of the wall. A gravity catch, which can only be unlocked from the inside, secures the outside door. The inside door can only be opened from the inside. The outside door is left unlatched when the receiver is empty. When a delivery is made and outside door closed it locks automatically until it is unlocked from inside the house and the package removed.

Send for the Literature You are Interested in

Catalog of Mantels and Fire Places.
Catalog of Grates, Andirons, etc.
Booklet of JaXon specialties.





Windo-Shutes

These are made with iron panel as illustrated or with a wire glass panel. Can be furnished either with (as shown) or without hopper. They are made in the following sizes:

24″ wide, 16″ high, 12″ deep, or 8″ deep
24″ wide, 17″ high, 13″ deep
32″ wide, 22″ high, 16″ deep
33″ wide, 22″ high, 18″ deep

Also make a grade chute for use where building has no foundation above ground level, or very low one.

JaXon Underground Garbage Receiver

This receptacle is buried in the back yard convenient to the kitchen door. It may be set in concrete, if desired, to insure permanency. It is out of sight, perfectly sanitary and emits no odors. It is safe from molestation by dogs, cats and vermin. Made in six sizes from 5 to 25 gallon capacities.

Also make two types of garbage receptacles for installation in kitchen wall.



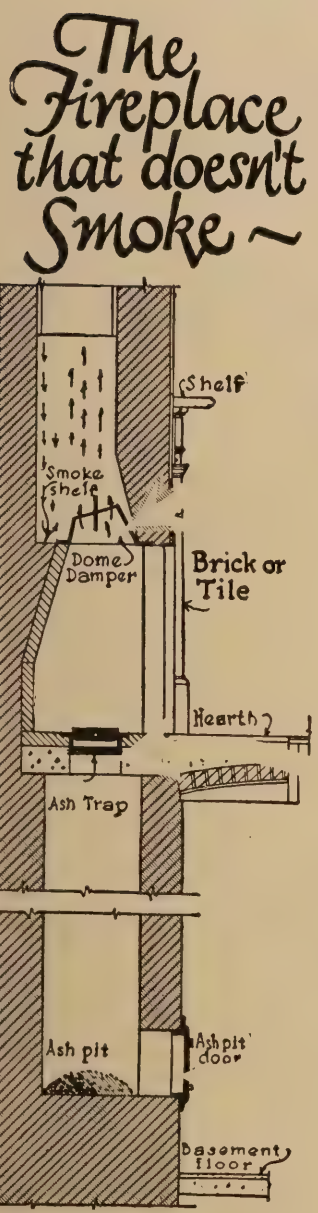
PEERLESS Builders Specialties

Manufactured by

PEERLESS MANUFACTURING CO.

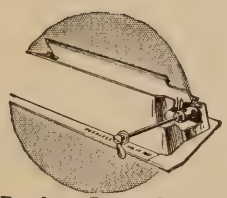
Incorporated

New York — **Louisville, Ky., U. S. A.** — **Los Angeles**



Products

Dome Dampers, Flat Dampers, Ash Pit Doors, Ash Traps, Coal Chutes and "In-The-Ground" Garbage Receivers are made by the PEERLESS Co. of Louisville, Ky., the Largest Manufacturers of Fireplace Equipment in the World.



Peerless Dome Damper No. 17 Made for Fire-Place Openings From 24 to 60 inches

Dome Dampers

Architects and Builders know that a satisfactory fireplace depends upon proper design and construction of the "throat". A Peerless dome damper regulates the opening of the throat at the top of the fireplace, the height of the throat, the slant and the size of the opening into the chimney thus insuring a perfect draft. To obtain perfect results the damper should have a base opening the size of the fireplace. Peerless dampers are so constructed that door automatically locks itself at any desired opening while operating the handle. Made in sizes from 24" to 60". Where excessive economy is necessary the Peerless Flat Damper may be used. Sizes 24" to 60".



Peerless Locked Door Trap No. 8
Large Size
9x11 in.—Wgt. 5 lbs.
Small Size
7x10 in.—Wgt. 3½ lbs.

Ash Traps

What pleasure an open fire would be without the dirt, dust and trouble of carrying out the ashes. Simply install a Peerless Ash Trap and enjoy the real pleasure of the open fire. The Peerless Automatic Trap has two sloping shutters that close by gravity when relieved of weight of ashes. Top is smooth and easily cleaned. All traps should be placed flush with hearth just below fire basket. Peerless Ash Traps are made in five different styles.



Peerless Ash Pit Door No. 3—Made in All Standard Sizes

Ash Pit Doors

Peerless Ash Pit doors are made in three styles and eight sizes. Should be used in ash pits under fireplaces and at bottom of chimney flues for removing ashes and soot.



Peerless Automatic Coal Chute No. 1

Coal Chutes

The coal chute supersedes the coal window in modern homes. It consists of heavy iron door frame and door, provided with either glass or steel panel as desired. Peerless coal chutes are designed for all types of houses, apartments, stores and Public buildings. And like all Peerless Products, they are fully covered by the Peerless Guarantee. Peerless Chutes are made in six styles and three sizes.

In-the-Ground Garbage Receivers

Garbage deposited by simply stepping upon a lever arrangement which raises the lid. Made in three sections, a copper steel outer casing, with its attached cast iron lid and a large 10 gal. galvanized iron pail. A sanitary, convenient and sightly storage for your garbage.



Peerless In-The-Ground Garbage Receiver No. 2

For further details and literature, write to: **PEERLESS MFG. CO., Inc., Louisville, Ky.**

Stover Fireplace Dampers and Coal Chutes

Manufactured by
STOVER MANUFACTURING & ENGINE CO.
749 East Street, Freeport, Ill.

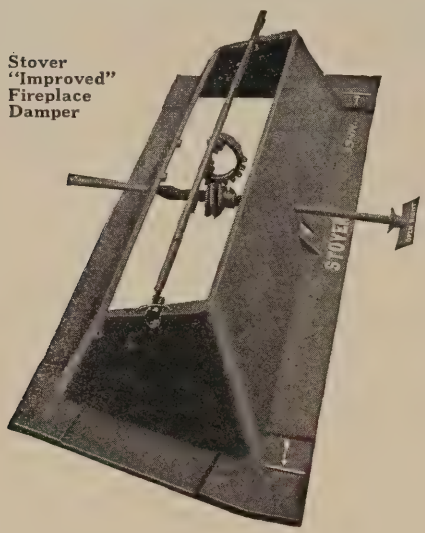
Products

Fireplace Dome Dampers; Foundation Coal Chutes.

Also Flat Ratchet Dampers, Ash Trap and Cleanout Doors, Chimney Thimbles, Andirons, Fire Sets, Fire Baskets and Screen Door Hinges.

Stover Fireplace Dampers

"Improved" Dome Dampers are made of selected gray iron, the dome acting as a connection between fireplace and flue. Cover is hinged in center and operated by a worm gear, allowing any draft desired. Control rod can be set either in center or right front end and easily adjusted in length. Knob is oxidized copper finish, shows directions and has wide flange to cover wall opening. Damper has wide flanges on all sides. Front flange is wide and heavy enough to carry one row of brick and has a heavy rib on lower side to hold a steel angle securely in place. The use of an extra course on a steel angle is recommended as it forms an apron in front and enlarges the smoke chamber.



Stover "Improved" Fireplace Damper

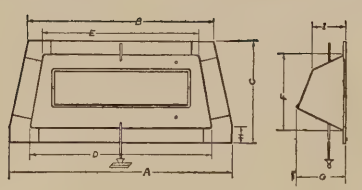
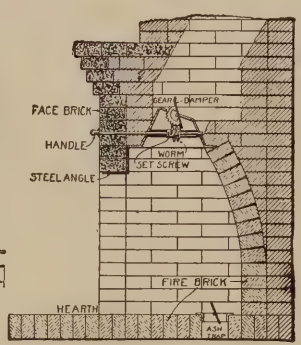


Diagram of "Improved" Damper



"Improved" Damper Set on Steel Angle

Dimensions of Fireplace Dampers

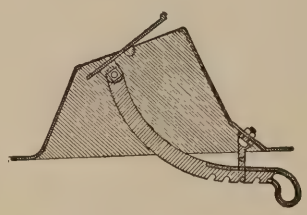
Style No.				Dimensions, Inches								
Improved	Ratchet Styles (See side note)			A	B	C	*D	E	F	G	H	I
15	39	39X	39Y	30	25	13¾	24½	21	10	6½	2¼	4½
16	40	40X	40Y	34	29	13¾	28½	25	10	6½	2¼	4½
16½	40½	40½X	40½Y	36	31	13¾	30	26	10	6½	2¼	4½
17	41	41X	41Y	38½	33½	13¾	33	28½	10	6½	2¼	4½
17½	41½	41½X	41½Y	42	37	13¾	36	32	10	6½	2¼	4½
18	42	42X	42Y	44½	39½	13¾	38½	35	10	6½	2¼	4½
18½	42½	42½X	42½Y	47½	42½	13¾	42	38	10	6½	2¼	4½
19	43	43X	43Y	54	49	13¾	49	45	10	6½	2¼	4½
20	44	44X	44Y	60	55	13¾	55	51	10	6½	2¼	4½

Dampers designated "X" have long levers for use with steel angle. Those marked "Y" have short lever for thin tile fronts. Dampers with no letter are standard for two course brick.

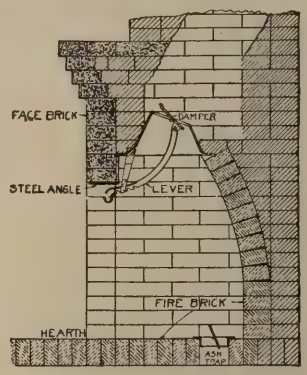
*Select size nearest to width of fireplace opening, but long enough to span and give support

Ratchet Dome Damper

Ratchet Dome Damper has same frame, cover and dimensions as the "Improved" Damper shown in opposite column. Operated by gravity locking, ratchet lever accessible just under front row of brick. Where steel angle is used specify "X" series, indicating long lever. For thin facing tile specify "Y" series, indicating short lever.



Ratchet Dome Damper



Ratchet Damper Set on Steel Angle

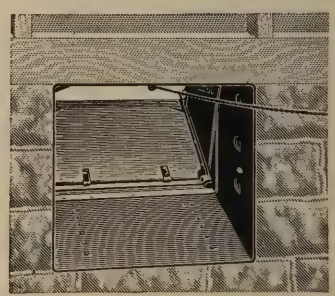
Stover Foundation Coal Chutes

A new style coal chute of great convenience and strength. Gray iron frame and heavy wrought steel body. Two types: No. 100 has solid iron door; No. 105 has wire glass panel in door. Finished in black enamel.

Absolutely weather tight with concealed hinges that cannot be tampered with from outside; locks automatically and can be opened only from inside. Operated by a chain outside bin which both opens and closes door quickly, easily and without jarring.



Outside View of No. 100 When Open

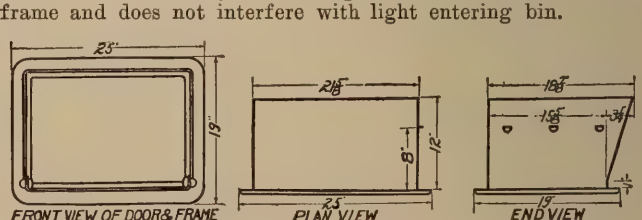


Inside View of No. 105 When Open

Stover Foundation Coal Chutes

On both types, door has steel side plates that form a hopper when door is open. A heavy steel shield is hinged to back of side plate and is thrown up to protect house from damage by coal. Shield easily holds its upright position.

No. 105 has a heavy steel shield hinged to lower part of door which lays over and protects glass when door is open. When door is closed, shield drops back on bottom of steel frame and does not interfere with light entering bin.



Dimensions of Stover Foundation Coal Chute

For further details and literature, write to: **STOVER MFG. & ENGINE CO., FREEPORT, ILL.**

MESKER DALITE COAL WINDOW

COMBINATION WINDOW AND COAL CHUTE

Made by

MESKER BROS. IRON CO.,

ST. LOUIS, MO.

Products

Steel sash and casements—fully described and priced in our catalog "Steel Windows"—copy on request.

Mesker Dalite Coal Window

This is one of our most popular specialties—a combination baement window and coal chute. Why close the outside opening to your coal bin with solid iron doors and deprive this part of the basement of light and air?

The Mesker Dalite Coal Window, when used with Mesker Solid Section Steel Basement Windows, gave 100 per cent light and ventilation all round the basement, and the coal chute windows match perfectly with the other windows, giving a uniform appearance to the outside of basement wall.

Outstanding Advantages

The sash of Mesker Dalite Coal Window is not hinged, but is **pivoted** to frame and is instantly removable without tools of any kind. The entire glass portion of window is removed when coal is being delivered, thus insuring glass against breakage. This removable feature also makes window exceptionally easy to clean.

Window is provided with heavy corrugated steel lintel, which assists in anchoring sash securely in position and gives adequate support to masonry above it.

Practically the entire window opening is available for glass, admitting from 40 to 60 per cent more light than wooden windows to the darkest spot in the basement—the coal bin.

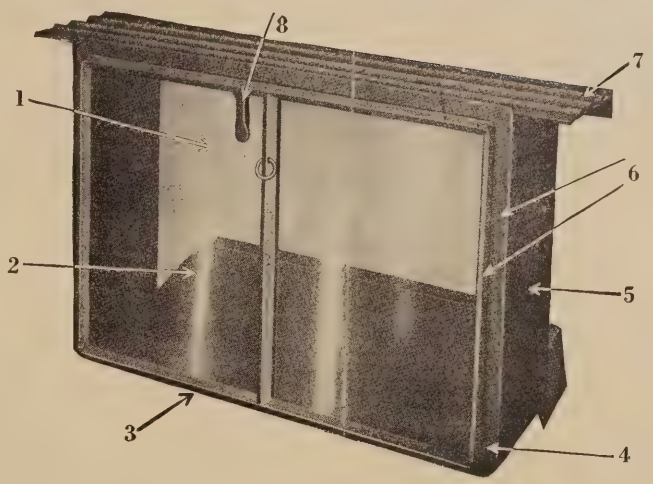
See illustration above for unique structural details that make this Coal Window a feature of home construction the people you build for will appreciate.

Very Reasonably Priced

In spite of its substantial construction, fine appearance and many superior features, the Mesker Dalite Coal Window is very reasonably priced. You can figure on using it in any type of house, no matter how low in price. Send for price list on various types and sizes.

Sizes—Wall Opening

25¾″	wide,	17¼″	high,	9″ deep
25¾″	wide,	17¼″	high,	12″ deep
29¾″	wide,	21¾″	high,	12″ deep
29¾″	wide,	21¾″	high,	17″ deep



NOTE THESE FEATURES

1—Admits 100 per cent daylight to the darkest spot in the basement or 40 to 60 per cent greater light than any other glass panel door chute on the market and by far less expensive.

2—Made of extra heavy, open hearth plate steel to withstand any severe shocks.

3—Door or ventilator can be removed or again placed in position instantly. No tools necessary. No attachments, no glass breakage, gives identical service for light and ventilation as any other window in the basement.

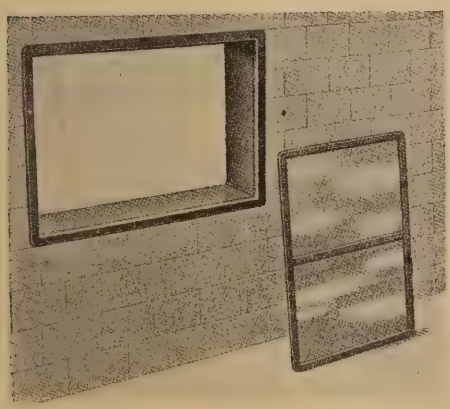
4—It is not an unsightly hinge but a Patented Pivot. Cannot rust tight or wear out by continued usage or break from rust, decay, or in cold and frosty weather. No attachments of any kind, no plates, bolts, nuts, pins or other loose parts.

5—Heavy, open hearth, plate steel used throughout, bent at right angles. No brittle castings to break. All parts securely held together by rivets, not by spot welds, which are not only cheaper but unreliable where parts are subjected to severe shocks and vibration.

6—Outer frame of window or chute and sash or door, of solid rolled open hearth steel throughout, with one continuous piece construction giving maximum in rigidity and durability.

7—Has its own lintel, made of cold rolled steel and the heavy pressed corrugated ribs at proper intervals give maximum rigidity and ample support to the masonry above it. Extend full four inches on each side.

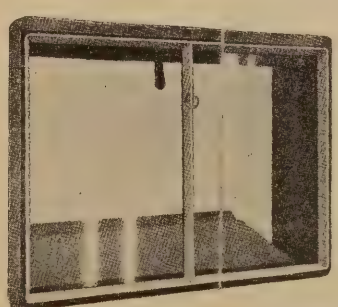
8—Automatic lock, positive closing, attractive; durable; affording protection from prowlers and rodents.



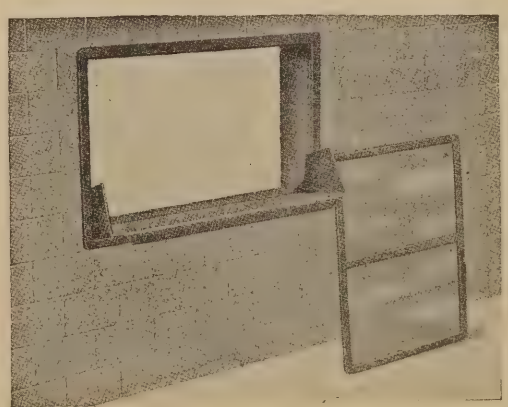
Types 90, 120L and 170
Door or ventilator on above types having been removed instantly, now ready to receive coal.



Outward appearance of Types 90, 120, 120L and 170.



Exterior view of Types 90H, 120H and 170H.



Types 90H, 120H and 170H
Showing exterior view of above types having hopper, preventing scattering of coal.

For further details and literature, write to:

MESKER BROS. IRON CO., St. Louis, Mo.

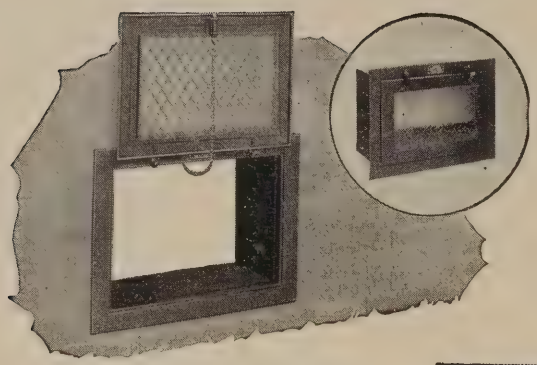
Gabriel Rolled Steel Products

Manufactured by

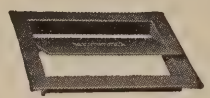
GABRIEL STEEL COMPANY

2441 Bellevue Avenue Detroit, Michigan

GABRIEL ROLLED STEEL PRODUCTS
(Trade Mark)



A G2412 Gabriel Coal Chute. Note the heavy wire guard for protection, and the chain. Glazed door eliminates a basement window.



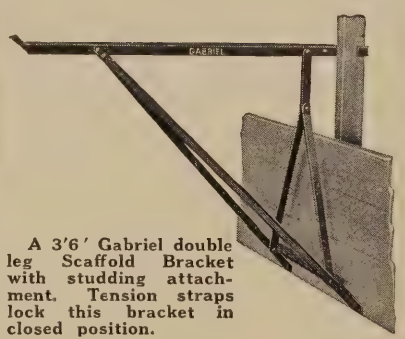
A 5"x7" Gabriel Ash Dump.



A 30° Gabriel Dome Damper Horizontal flange type with handle control and damper leaf open.



An 8"x8" Gabriel Ash Pit Door.



A 3'6' Gabriel double leg Scaffold Bracket with studding attachment. Tension straps lock this bracket in closed position.



A 24" Gabriel Carpenter Saw Horse.



Products

Coal Chutes—Dome Dampers—Ash Pit Doors—Ash Dumps—Scaffold Brackets—Scaffold Horse Legs—Steel Floor Joists.

Quality and Price

Gabriel Products are *guaranteed* by the manufacturer to be 100% satisfactory. You may or may not be interested in the material from which these products are made. Naturally, in order to protect an unconditional guarantee, nothing but the highest quality of material is used. They are manufactured on a production basis and are accordingly priced far below the usual quality product.

Construction and Material

Standard and Special Rolled Steel Sections are used in the manufacture of these products. Pressed metals and castings have been entirely eliminated. All joints are electrically arc welded. Every product is rigidly inspected, and painted with a dip coat of lead and oil paint. The use of Creosote paint has been discontinued by us. Gabriel Quality can be known only by comparison.

Gabriel Features

Each product has been developed to perform its function more perfectly, more easily and more positively than any similar product. The Coal Chute door is automatically opened by release of the catch, and is positively locked when closed from the outside. All types are equipped with chain and roller. The Ash Pit Door is practically unbreakable. The Dome Damper leaf is opened wide by a quarter turn of the handle. Its position (either open, partly open, or closed) is always indicated by the handle—a great convenience of the fireplace. The Scaffold Bracket is capable of supporting more than a ton.

Sizes, Kinds, Etc.

Coal Chutes: Foundation Wall Chutes made for 16"x24" and 22"x32" masonry openings. Both sizes with solid steel or glazed door, and with bodies for 9", 13" or 17" walls. Grade line Chute with 18"x24" door only. Hoppers for foundation chutes shipped detached.

Dome Dampers: Made for 24", 30", 36", 42", 48", 54" and 60" openings. Can be had with black enamel or brass plated handles for hand control, and with poker ring or chain for poker control. Manufactured with vertical front for use with extra lintel, and with *horizontal front for use without extra lintel.*

Ash Pit Doors: Made in sizes 8"x8", 8"x10", 10"x12", and 12"x16".

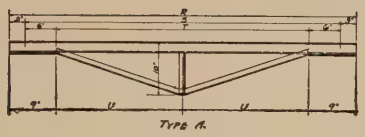
Ash Dumps: Made in one size only—5"x7" opening.

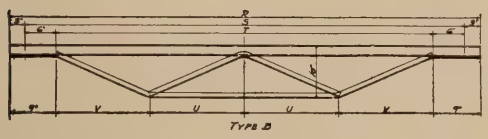
Scaffold Brackets: Made in both single and double leg types. Lengths 3'6" and 4'0" for side wall. End connections for attaching to studding, sheeting or stucco are interchangeable with double leg type. Corner bracket made only in double leg type 4'6" long.

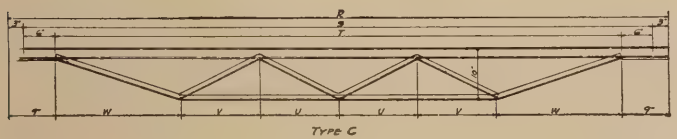
Scaffold Horse Legs: Made in carpenter type 24" and 30" high. Mason type 5'0" high.

This Home Used Every GABRIEL PRODUCT Shown on This Page.

For further details and literature, write to: **GABRIEL STEEL COMPANY** 2441 Bellevue Avenue Detroit, Michigan

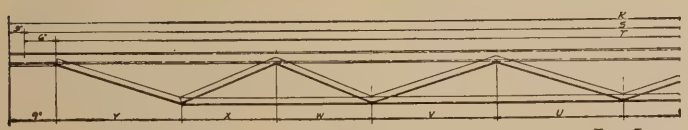




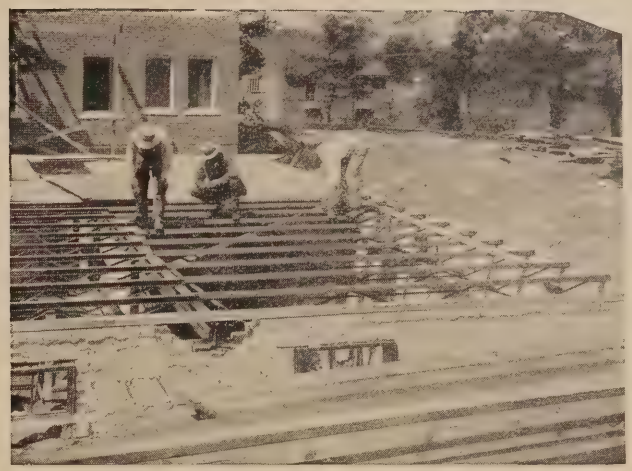




Type D Symmetrical About Center Line



Type E Symmetrical About Center Line



Showing Simple Manner of Construction with Gabriel Steel Joists

Gabriel Steel Joists

Gabriel Rolled Steel Joists have been particularly designed to increase fire-safety in light-occupancy buildings employing wood floors. The building delays and inconveniences of concrete construction can now be eliminated while practical fire-proof construction is secured.

Gabriel Joists are constructed from standard rolled steel sections rigidly connected at the joints by electric arc welding. They are really steel trusses in miniature. No diagonal bridging or bracing is necessary and as their weight is approximately only half that of wooden joists of equal strength they can be quickly and economically placed. Floor construction is more rapid with Gabriel Rolled Steel Joists.

Table of Details for Series 10 Steel Joists

Type	Mark	Top Chord	Bottom Chord	Diagonal Member	Dimensions								Over-all Depth	Total Weight	Weight Per Foot	Total Capacity in Lbs. per Foot of Span	
					R	S	T	U	V	W	X	Y				Unit Stress	
																18000# to an Inch	16000# to an Inch
A	A4-5	2″ C 1.78#	1″x1″x⅛″ L	1″x1″x⅛″ L	5′-6″	5′-0″	4′-0″	2′-0″					10″	13.8#	2.75#	350	310
	A5-6	2″ C 1.78#	1″x1″x⅛″ L	1″x1″x⅛″ L	6′-6″	6′-0″	5′-0″	2′-6″					10″	16.4#	2.75#	280	250
B	B6-7	2″ C 1.78#	1″x1″x⅛″ L	1″x1″x⅛″ L	7′-6″	7′-0″	6′-0″	1′-6″	1′-6″				10″	21.0#	3.00#	260	230
	B7-8	2″ C 1.78#	1″x1″x⅛″ L	1″x1″x⅛″ L	8′-6″	8′-0″	7′-0″	1′-6″	2′-0″				10″	23.5#	2.94#	220	195
	B8-9	2″ C 1.78#	1″x1″x⅛″ L	1″x1″x⅛″ L	9′-6″	9′-0″	8′-0″	2′-0″	2′-0″				10″	26.9#	2.99#	190	169
C	C9-10	2″ C 1.78#	1″x1″x⅛″ L	1″x1″x⅛″ L	10′-6″	10′-0″	9′-0″	1′-3″	1′-3″	2′-0″			10″	30.3#	3.03#	173	154
	C10-11	2″ C 1.78#	1″x1″x⅛″ L	1″x1″x⅛″ L	11′-6″	11′-0″	10′-0″	1′-6″	1′-6″	2′-0″			10″	33.85#	3.08#	150	133
	C11-12	2″ C 1.78#	1⅛″x1⅛″x⅛″ L	1⅛″x1⅛″x⅛″ L	12′-6″	12′-0″	11′-0″	2′-0″	1′-6″	2′-0″			10″	39.25#	3.27#	135	120
	C12-13	2″ C 1.78#	1⅛″x1⅛″x⅛″ L	1⅛″x1⅛″x⅛″ L	13′-6″	13′-0″	12′-0″	2′-0″	2′-0″	2′-0″			10″	42.7#	3.28#	122	109
	C13-14	2″ C 1.78#	1¼″x1¼″x⅛″ L	1¼″x1¼″x⅛″ L	14′-6″	14′-0″	13′-0″	2′-6″	2′-0″	2′-0″			10″	48.8#	3.49#	112	100
D	D14-15	2″ C 1.78#	1¼″x1¼″x⅛″ L	1¼″x1¼″x⅛″ L	15′-6″	15′-0″	14′-0″	2′-0″	1′-6″	1′-6″	2′-0″		10″	52.8#	3.52#	110	98
	D15-16	2″ C 1.78#	1¼″x1¼″x⅛″ L	1¼″x1¼″x⅛″ L	16′-6″	16′-0″	15′-0″	2′-0″	2′-0″	1′-6″	2′-0″		10″	56.65#	3.54#	103	92
	D16-17	2″ C 2.57#	1¼″x1¼″x3/16″ L	1¼″x1¼″x⅛″ L	17′-6″	17′-0″	16′-0″	2′-6″	2′-0″	1′-6″	2′-0″		10″	82.2#	4.80#	130	116
	D17-18	2″ C 2.57#	1¼″x1¼″x3/16″ L	1¼″x1¼″x⅛″ L	18′-6″	18′-0″	17′-0″	2′-6″	2′-6″	1′-6″	2′-0″		10″	86.9#	4.80#	121	108
E	E18-19	2″ C 2.57#	1¼″x1¼″x3/16″ L	1¼″x1¼″x⅜″ L	19′-6″	19′-0″	18′-0″	2′-0″	2′-0″	1′-6″	1′-6″	2′-0″	10″	95.0#	5.00#	114	101
	E19-20	2″ C 2.57#	1¼″x1¼″x3/16″ L	1¼″x1¼″x⅛″ L	20′-6″	20′-0″	19′-0″	2′-0″	2′-0″	2′-0″	1′-6″	2′-0″	10″	100.0#	5.00#	107	95

Capacities shown include no flexure stress in bottom chord.

Break Proof

Majestic Coal Window

Rust Resisting

Made By

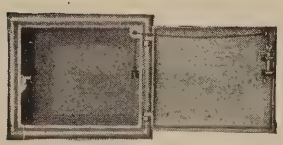
THE MAJESTIC COMPANY

HUNTINGTON, INDIANA

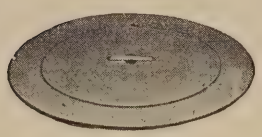
Other MAJESTIC *Quality Products*



Underground Garbage Receiver



Milk and Package Receiver



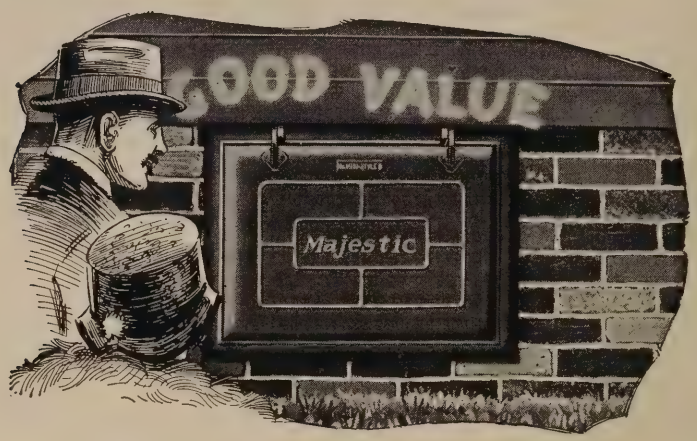
Cistern Ring and Cover



Fireplace Ash Dump



Cast Iron Flue Thimble



MORE CREDIT TO YOU IF IT'S RIGHT AT FIRST

After all, you are responsible for the kind of finished job the home-owner gets. And it's to your lasting credit if everything is right at first.

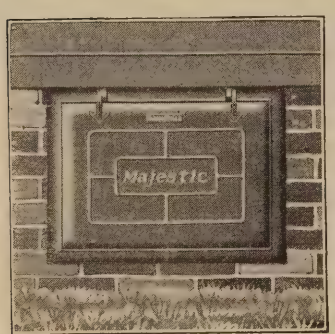
But—if the coal window becomes a source of irritation, expense and depreciation for him, it's a knock against you!

Ordinary sash and "cheap" coal windows can't long stand the gaff. The Majestic Coal Window says "good value" to everyone who sees it. And the little extra it may cost at first, is insignificant compared with the grief and expense it saves later.

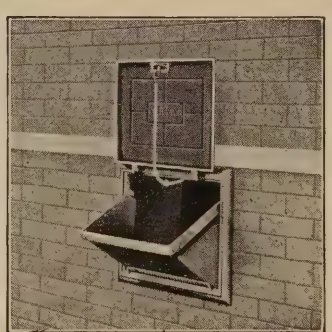
It protects the house against damage, and is guaranteed break-proof—made of Certified Malleable Iron and Keystone Copper Steel. And electric-galvanized pressed steel doors defy rust.

It pays to install Majestic Coal Windows in homes you build.

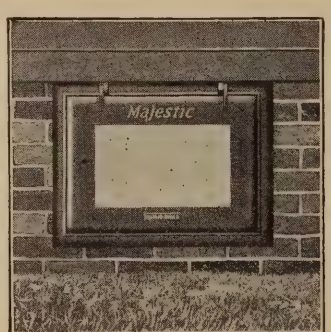
Majestic Coal Windows come in a variety of styles and sizes with or without hopper and with glass or pressed steel door. See opposite page for sizes and prices of Majestic Coal Windows and Building Specialties. For further information write us.



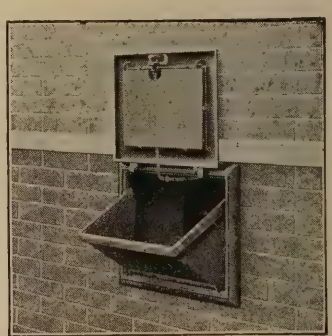
Steel Door Styles Closed



Steel Door Styles Open



Glass Panel Styles Closed



Glass Panel Styles Open

For further details and literature, write to: **THE MAJESTIC COMPANY, Huntington, Ind.**

Majestic Coal Window (Continued)

SIZES AND PRICES

Majestic Coal Windows, Pressed Steel Doors

No.	Style	Wall Opening Wide	Wall Opening High	Wall Opening Deep	Ship. Wt.	List Price
M101	B	24″	17″	12″	52	$12.00
M101	D	24″	17″	12″	41	10.50
M203	B	32″	22″	17″	105	24.00
M203	D	32″	22″	17″	84	21.30
M500	.....	24″	17″	9″	35	9.00
M520	.....	32″	22″	12″	70	18.00

(Style B is with Hopper—Style D without Hopper)

Majestic Coal Windows, Glass Panel Doors

No.	Style	Wall Opening Wide	Wall Opening High	Wall Opening Deep	Ship. Wt.	List Price
M 10	A	24″	17″	12″	63	$15.00
M 10	C	24″	17″	12″	52	13.50
M 20	A	32″	22″	17″	120	27.00
M 20	C	32″	22″	17″	100	24.00
M600	.....	24″	17″	9″	45	12.45
M620	.....	32″	22″	12″	88	22.80

(Style A is with Hopper—Style C without Hopper)

Grade Line Coal Chutes

No.	Door Opening	Wall Opening Wide	Wall Opening High	Ship. Wt.	List Price
M16	24″ x 18″	25″	25″	145	$33.00
M18	30″ x 24″	31″	31″	212	48.00

Store Coal Chutes

No.	Door Opening	Wall Opening Above Grade	Wall Opening Below Grade	Ship. Wt.	List Price With Hopper	List Price Without Hopper
M12	21″x15″	23″x17″	23″x25″	108	$33.00	$31.50
M15	29″x19¼″	31″x21¼″	31″x25″	150	48.00	45.30

Underground Garbage Receivers

No.	Can Capacity	Shipping Weight Plain Can	Shipping Weight Witt Can	List Price Plain Can	List Price Witt Can
5	5 gal.	31	35	$ 7.80	$ 8.70
8	8 gal.	48	53	9.90	11.10
12	12 gal.	52	58	10.80	12.60
15	15 gal.	60	66	11.40	15.90
20	20 gal.	80	87	14.70	19.90

Cellar Wall Grates

Size	Weight, Each	List Price
4″ x 8″	2	$0.39
6″ x 8″	3	.54
6″ x 12″	4	.75
8″ x 8″	4	.66
8″ x 12″	5	.84
8″ x 16″	5½	.93
10″ x 12″	6½	1.11
10″ x 16″	10½	1.65

Milk and Package Receivers

No.	For Wall Thickness	Ship. Wt.	Price
1	5 in. to 8 in.	46	$9.75
2	8 in. to 14 in.	50	9.90

Fireplace Dampers

No.	Width Fireplace Finished Opening	Ship. Wt.	List Price
26	26 inches	45	$ 8.25
30	30 inches	52	9.00
34	34 inches	59	9.90
38	38 inches	66	11.10
42	42 inches	70	12.30
46	46 inches	75	13.50
50	50 inches	81	15.00
54	54 inches	89	16.50

Fireplace Ash Dumps

No.	Outside	Inside	Shipping Wt. Doz.	List Price
6	8″ x 8″	6″ x 6″	45	$0.99
8	10″ x 10″	8″ x 8″	60	1.20
9	6″ x 9″	4″ x 7″	38	.81
10	7″ x 10″	5″ x 8″	46	.99

Cast Iron Flue Thimbles

Size of Smoke Collars	Size Overall	Weight Each	List Price
5″	5½″	3½	$0.75
6″	6½″	4¾	.81
7″	7½″	5	.87
8″	8½″	5¼	.93
9″	9½″	6¼	1.29
10″	10½″	9	1.38

Flue Clean-Outs

No.	Size	Shipping Weight Dozen	List Price
88	8″ x 8″	85	$1.20
812	12″ x 8″	125	1.80
1012	12″ x 10″	180	2.40

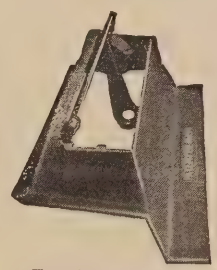
Ash Pit Doors

Size	Frame	Door	Shipping Weight	List Price
12″ x 15″	Cast	Cast	23	$4.80
15″ x 15″	Cast	Cast	35	6.00

Cistern Rings and Covers

Inside Diameter	Outside Diameter	Weight Each, lbs.	List Price
18″	24″	45	$ 7.20
20″	26″	56	8.70
22″	29″	70	10.80
24″	31″	88	12.90

Other MAJESTIC *Quality Products*



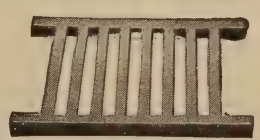
Fireplace Damper



Flue Cleanout Door



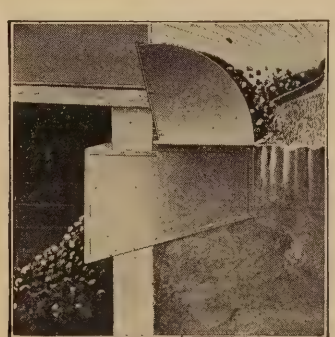
Ash Pit Door



Cellar Wall Grate



Grade Line Chute Closed



Grade Line Chute Open



Store Chute Closed



Store Chute Open

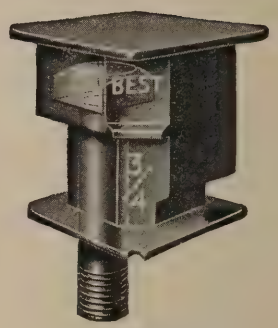
For further details and literature, write to: **THE MAJESTIC COMPANY, Huntington, Ind.**

STAR COAL CHUTE

Made By

STERLING FOUNDRY COMPANY

STERLING, ILLINOIS



Insert with Bolt in Place.

PRODUCTS:

A great variety of Cast Iron Specialties many of which are used in building construction, or in the grounds surrounding the home:

Coal Chutes	Cistern Covers	Foot Scrapers
Clean-out Doors	Chimney Caps	Concrete Inserts
Foundation Gratings	Chimney Coping	Studding Sockets
Cesspools	Ventilators	Etc., Etc., Etc.,

If the thing you want can be made of cast iron, write to us—the chances are we have already made something similar and have patterns available.

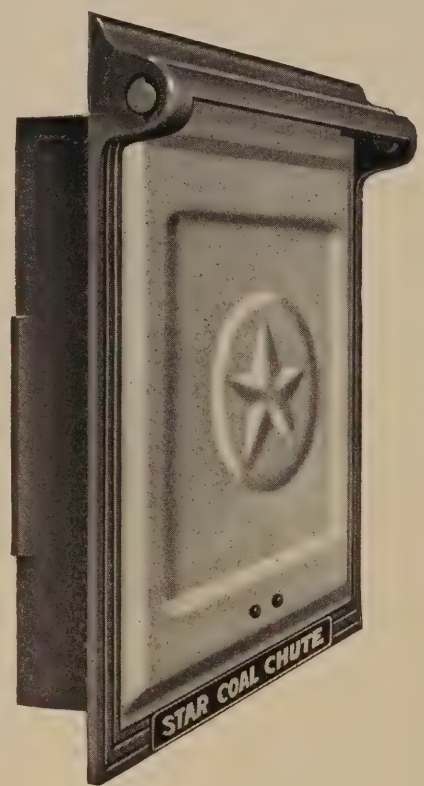
Star Coal Chute

When planning your foundation wall figure on one or two Star Coal Chutes, leaving an opening 22 inches wide by 17 inches high in the masonry for each chute. The STAR is the sturdiest coal chute you ever saw—frame made of cast iron with lugs on all four sides for anchoring into the masonry.

Water tight housing at top, giving absolute protection against the weather. Door of 18 gauge stamped steel, embossed to give it greater rigidity.

Hinges concealed and protected under housing. Door locks automatically in both the open and closed positions; and when closed shuts *tight*. It keeps out drafts, rain and vermin.

Chute is finished with one coat of grey iron filler and comes carefully packed in fibre carton, protecting it until you are ready to install it. Can be shipped by parcel post—shipping weight 41 lbs.





Showing Section of Wall Door Open

Inquiries Invited

Building contractors are cordially invited to write us about any cast iron product they may require. Tell us the type of building you are erecting and we will send you illustrations, descriptions and prices of products that you are likely to want. Our prices are reasonable and our materials and workmanship are A-1 in every particular.

Concrete Insert "BEST"

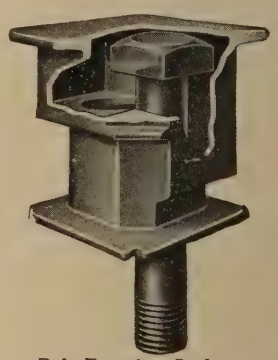
Every building with concrete ceilings should be liberally supplied with inserts for ceilings for suspending pipes, timbers, shafting track, shelving, etc.

The "BEST" insert is very simple and compact in design; strong and rigid in construction; quick and secure in action. The bolt is held in a vertical position, with the threads down and with a sort of hook motion the head of the bolt is seated in a wrench shaped socket, instantly.

The best pratice calls for the nut of a bolt to be outside, where it can be seen. With this insert, there is no chance of a nut becoming rusted in, or the thread being "jimmed," so that the bolt cannot be taken out of the insert.

The insert is designed to take the full strength of the bolt. If desired, an eye bolt with standard head on the other end can be used for raising a load by means of a differential block.

Made for ⅜", ½", ⅝", ¾", and ⅞" bolts with standard square heads—Write for further information and prices.



Bolt Entering Socket Chamber.

For further details and literature, write to: **STERLING FOUNDRY CO.** **8 Joro Street, STERLING, ILL.**

YPS Copper Steel Coal Doors and Basement Windows

YPS Steel Bridging and Joist Pin Anchors

Manufactured by

THE YOUNGSTOWN PRESSED STEEL COMPANY

General Offices and Factories

WARREN, OHIO

DISTRICT OFFICES

New York, N. Y., 347 Madison Avenue — Chicago, Ill., 927 Straus Bldg.

Philadelphia, Pa., 917 Crozer Bldg. — Detroit, Mich., 901 Dime Bank Bldg.

San Francisco, Cal., 180 Jessie Street — Los Angeles, Cal., 1736 East 15th Street — Boston, Mass., 258 Washington Street

Products

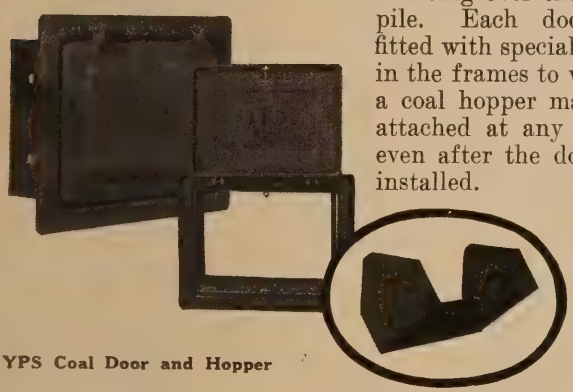
YPS Copper Steel Coal Doors
YPS Copper Steel Basement Windows
YPS Steel Bridging
YPS Joist-Pin Anchors
Sharon Channels, Youngstown Box Channel, Youngstown Pencil Channel; Crimped Furring.
YPS Expanded Metal
Protex, Parker and Youngstown Corner Beads and Sharon Base Bead.
(For metal lath see pages of Associated Metal Lath Manufacturers.)

YPS
TRADE-MARK

YPS Copper Steel Coal Door

General all-around sturdiness, combined with neat appearance are the particular advantages found in the YPS Coal Door. The frame is made of one solid piece of deep drawn, copper steel tank plate. This same unbreakable material is used throughout the door's construction.

Unbreakable offset hinges automatically hold the door, when open, agaist the foundation giving perfect protection to the wall when the coal is being put in. The easy, tight-closing locks are both burglar-proof and break-proof. If desired, they may be equipped with a chain in order to release catch without climbing over the coal pile. Each door is fitted with special slots in the frames to which a coal hopper may be attached at any time, even after the door is installed.



YPS Coal Door and Hopper

Style No.	Wall Thickness	Masonry Opening	Weight
801 Door and Frame (no Hopper)	8″	21¾″ wide x 16″ high	46 lbs.
802 Door and Frame (no Hopper)	13″	21¾″ wide x 16″ high	50 lbs.
810 Hopper only			14 lbs.
811 Chain only			

YPS Steel Bridging

YPS Steel Bridging takes the place of ordinary wooden cross bridging used to stiffen wood joists against lateral deflection. Goes up like wooden bridging with 4-penny nails.

It comes ready to install and therefore gives faster, more economical erection. The real cost in preparing wooden bridging on the job is the carpenter time necessary for cutting and fitting.

The nail holes in YPS Steel Bridging are extruded, leaving small prongs on the side next to the joist. The carpenter simply taps the bridging into place, where it sticks until he drives the nails.



YPS Steel Bridging

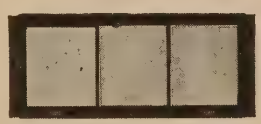
Styles and Weights

Style	Net Diagonal Length	Wood Joists	Centers	Approximate Shipping Weight per 100 Pairs
No. 1	15 1/16″	2″x 8″ (2″x10″) (2″x12″)	16″	72 pounds
No. 2	15⅞″		16″	75 pounds
No. 4	12½″	(2″x10″) (2″x12″)	12″	60 pounds

YPS Basement Window

YPS Basement Windows are designed to meet every requirement for residences, apartments and store buildings. They can be installed, in any type of foundation wall and are indestructible, weatherproof, fireproof and rotproof. They never swell, shrink, warp, stick, "get out of square" or splinter.

When closed they will admit more light and when open give greater ventilation than wooden windows of the same size masonry opening. Four standard sizes.



YPS Basement Window

Style No.	Type	Glass Size Inches	Masonry Opening Inches	Overall Size Inches	Weight Lbs.
701	3-light	10x12	34⅛x14¾	2′11¼″x1′ 3¼″	21
702	3-light	12x18	40⅛x20¾	3′ 5¼″x1′ 9¼″	27
703	3-light	10x20	34⅛x22¾	2′11¼″x1′11¼″	26
704	2-light	14x20	31¾x22¾	2′ 8⅞″x1′11¼″	23

YPS Joist-Pin Anchors



Wood joists supported by brick walls should have a secure anchorage in the masonry. This will prevent collapse of walls during construction as well as after completion.

YPS Joist-Pin Anchors embedded in the masonry walls anchor the joists in the wall. They are made from steel strips 3/16″x1⅛″, 14½″ long. One end is punched with two ¼″ holes for fastening to joists with spikes or lag screws. Inserted and firmly pinched in the other end, which is widened to ½″, is a steel pin 7/16″ in diameter and 5″ long. This pin is excellent for use with hollow tile, brick or stone home construction.

For further details and literature, write to: **THE YOUNGSTOWN PRESSED STEEL COMPANY, Warren, Ohio**

AMERICAN WINDOW GLASS

Made by

AMERICAN WINDOW GLASS COMPANY

PITTSBURGH, PA.

District Sales Offices:
NEW YORK CHICAGO BOSTON
NEW ORLEANS ST. LOUIS
ATLANTA MEMPHIS SAN FRANCISCO

AMERICAN WINDOW GLASS CO. PITTSBURGH, PA. U.S.A.

TRADE MARK

Factories:
ARNOLD, PA. BELLE VERNON, PA.
KANE, PA. JEANNETTE, PA.
MONONGAHELA CITY, PA.
HARTFORD CITY, IND.

Products

This company is the world's largest producer of window glass. Its products include Flat Glass for glazing purposes, Window Glass, Crystal Sheet Glass, Ground Glass, Chipped Glass, as well as Picture and Photo Glass.

Process and Production

All of the glass manufactured by this company is machine made, thus insuring greater uniformity of thickness than can be obtained by the hand-blown process. The annual production of the American Window Glass Company is 300 million square feet—nearly a million feet a day.

Chemical and Physical Properties

Chemical analysis demonstrates that American Window Glass Company's product is less susceptible to discoloration, fade or stain than any other window glass made, whether produced in this country or in Europe.

Tests of the physical properties prove that it has greater tensile strength than plate glass, rolled glass, or any other window glass—and greater resistance to fracture.

Flatness

We have perfected a new process of flattening which enables us to produce window glass that is *absolutely flat.* This means that there is less distortion when looking through a window glazed with our glass. Our new-process-flattened glass may be glazed with either side out.

Annealing

The glass of this company is subjected to two annealing processes, instead of one; an important consideration when one remembers that the strength of window glass depends largely on the thoroughness with which it is annealed. Imperfectly annealed glass is very brittle and breaks easily.

"The BEST Glass"

Grades and Qualities

"AA" indicates the best quality of window glass. "A" indicates the next best grade and "B" the next quality. Grade "B" is suitable for basement and attic windows, but only grades "A" or "AA" should be used for glazing the windows of the principal rooms of a dwelling.



Because the cost of window glass is trifling compared to the cost of other material is no reason to disregard the prominent part it plays in beautifying a house. This is especially true when you consider that you can buy "The BEST Glass"—clear and flat, exceptionally strong—for the same low price as the ordinary kind.

Thickness and Weight

Single Strength window glass ranges from 10 to 12 lights to the inch and weighs 18½ ounces per square foot. *Double Strength* glass ranges from 8 to 9 lights to the inch and weighs 24½ ounces per square foot. Glass thicker than Single Strength or Double Strength is known as "Heavy Sheet Glass" and is designated by weight in ounces per square foot.

26-oz. Glass Stacks 7½ to 8 lights to the inch.
29-oz. Glass Stacks 6½ to 7 lights to the inch.
34-oz. Glass Stacks 6 to 6½ lights to the inch.
39-oz. Glass Stacks 5 to 5½ lights to the inch.
(A sheet of 39-oz. glass is about 3/16 of an inch thick.)

Crystal Sheet Glass

Made in the heavier weights only—26-oz. to 39 oz. This is the finest quality of window glass made—absolutely flat, of uniform thickness, and with a brilliant surface. Used for glazing windows in the better class of homes, also for glazing French doors, and for table or bureau tops and glass shelving. An acceptable substitute in many cases for the higher priced polished plate glass.

Identification Label

All our boxes are identified by the oval trade-mark shown above, and each contains a "quality" paper slip showing the grade and thickness.

Complete Window Glass Specifications or any other information you may desire will be gladly furnished on request.

"The BEST Glass" is obtainable from any of the leading distributors throughout the United States.

For further details and literature, write to: **AMERICAN WINDOW GLASS COMPANY** Farmers Bank Bldg. PITTSBURGH, PA.

Diamond Metal Weather Strip and Calking and Glazing Compound

Sales Agencies in all principal cities.

Made by

THE DIAMOND METAL WEATHER STRIP CO.

401 Spruce Street, Columbus, Ohio

Established 1909
Paid in Capital $50,000.

Products:

This company manufactures Diamond Metal Weather Strip, a scientifically designed and practical weatherstrip for installing on doors and windows. Also manufacture Diamond Calking and Glazing Compound for calking around window and door frames, pointing-up stone and stucco work, setting tile, etc.

Diamond Metal Weather Strip:

Advantages: This is quickly applied to the doors and windows in either new or old buildings at a moderate cost. Lasts practically as long as the building itself. More than pays for its cost and installation in the saving it effects in fuel consumption and preventing dust and dirt damage to decorations and furnishings.



X-Ray View of Window Showing Diamond Weather Strip Installed.

Keeps cold air from entering the house around the edges of sash and under doors, thus keeping rooms at an evener temperature in winter and saving from 20 to 40 percent in heating expense.

Keeps dust, dirt and storm from entering when windows and doors are closed. Prevents windows from rattling and makes the house quieter by deadening outside noise.

Weather strip is never in sight when door or window is closed.

Types Made:

There are six different types for double hung or sliding windows.

Five different types for doors.

Four different types for casement windows.

Special type for hollow metal sash and frames.

Materials:

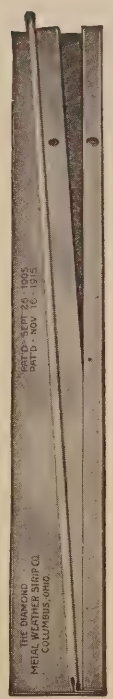
Being made of zinc, spring bronze, brass and aluminum, they are rust-proof and long lived.

Manufacturing Facilities:

This company has been manufacturing and installing weatherstrips for 15 years. Thousands of buildings throughout the United States and Canada have been equipped. Special machinery produces a large volume of accurately-made weatherstrip. A high standard of efficiency is maintained both in the manufacturing and installing of Diamond Metal Weather strip.

Special Features:

Durability: Diamond metal weatherstrips are so designed and constructed that they overcome the objections of sticking or binding, caused by the swelling, warping or shrinking of sash, and by the swelling of parting stops and dividing strips which are exposed to the weather.



Windows equipped with Diamond Metal Weatherstrips always raise or lower easily.

Removable: The runway or side strip for double hung sliding windows is made in two sections—a base with a fold-over under which the rib interlocks and is held in place by a screw and mitre at sill or top.

When it is necessary to remove sash to replace broken cord, take out screw. Only the stripping at one side need be removed. After rib is removed, if it is necessary to get into weight pocket this can be done without kinking or damage.

Guarantee:

All Diamond Weatherstrips are sold subject to a guarantee against imperfections in material and workmanship for a period of 10 years from date of installation.

Service:

A practical engineering department is at the service of contractors and builders for solving difficult or unusual problems in weatherstripping.

All material is applied by skilled mechanics under personal supervision of established company agencies.

Blueprint details, specifications and descriptive literature furnished contractors and builders on request.

A list of installations in any particular section of the country sent upon request.

Estimates:

Will be promptly and cheerfully furnished by our nearest agency. Write home office for name and address.



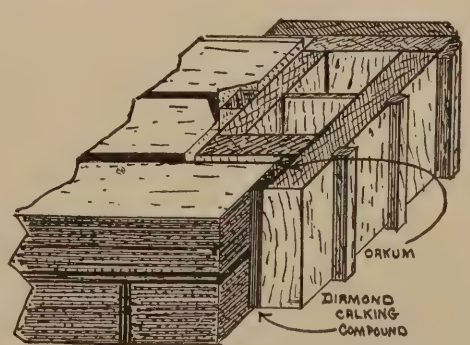
Section Showing Removal of Sash and "Flexible" Strip at the same time.

Diamond Calking and Glazing Compound:

Uses: For calking around frames of windows and doors in new or old buildings, for bedding and glazing skylights and conservatories, pointing-up stone and stucco work, setting tile, etc. It will adhere to iron, steel, wood, glass, concrete or stone.

Advantages: Actually seals all openings permanently and lasts as long as the building. Does not break away or crack, dry or fall out of joints. Insures against dust, dirt or cold entering around window or door frames. Saves fuel by making tight joints wherever it is applied.

Packing, Color, etc.: It is gray in color and of the same consistency and general appearance as ordinary glazier's putty. Packed in 12½ and 25 pound pails, 50 and 100 pound kegs, half barrels (400 lbs.) and barrels (800 lbs.) Ask for literature and prices.



For further details and literature, write to: **THE DIAMOND METAL WEATHER STRIP CO., Columbus, Ohio**

Chamberlin Metal Weather Strips

Manufactured by

CHAMBERLIN METAL WEATHERSTRIP CO., INC.

General Office: Detroit, Mich.

Factories: Detroit, Mich., Peru, Ill.

DISTRICT BRANCHES

Atlanta	Buffalo	Cleveland	Kansas City	New York	St. Louis
Baltimore	Chicago	Denver	Los Angeles	Philadelphia	Washington, D. C.
Boston	Cincinnati	Detroit	Minneapolis	Pittsburgh	Wilkes-Barre

BRANCHES IN 60 OTHER CITIES OF THE UNITED STATES

Productions and Services:

Chamberlin Metal Weather Strips and Door Bottoms for every type of wood, metal or metal covered window or door.

Brass Thresholds and Pulley Hole Covers.

Calking of and around window and door frames.

All installations and services executed by the Company's own mechanics.

Distribution:

Chamberlin Metal Weather Strip Equipment is sold by the Company's own Branches. Installations are supervised by them and executed by Chamberlin mechanics.

Branch salesmen will submit estimates without obligation.

Experience:

Chamberlin, the metal weather strip pioneer, has been installing weather strips successfully for 33 years.

CHAMBERLIN METAL WEATHER STRIPS "SINCE 1893-THE STANDARD"

Guarantee

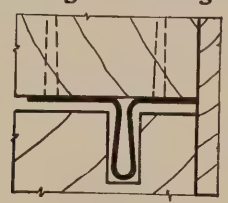
Every Chamberlin installation is protected by our contract guarantee clause. "We agree to correct any defects due to imperfect material or workmanship, under normal usage, during the life of the building."

Chamberlin Metal Weather Strips:

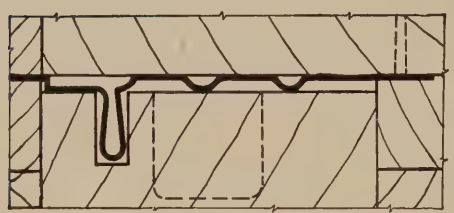
Chahmberlin is needed wherever there is a window or door for reasons of economy, health, cleanliness and comfort. It eliminates air and dust circulation through window cracks, and rain leakage also. It insures a saving of 25% to 40% in fuel costs; far greater comfort and cleanliness. It lasts a lifetime, but it's cost is surprisingly low.

Chamberlin can be furnished in any standard gauge. Made of either bronze, brass, copper or zinc. Specially designed equipment is available.

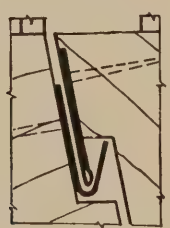
Corrugated Equipment for Double Hung or Sliding Window



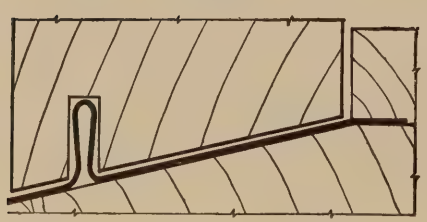
Head



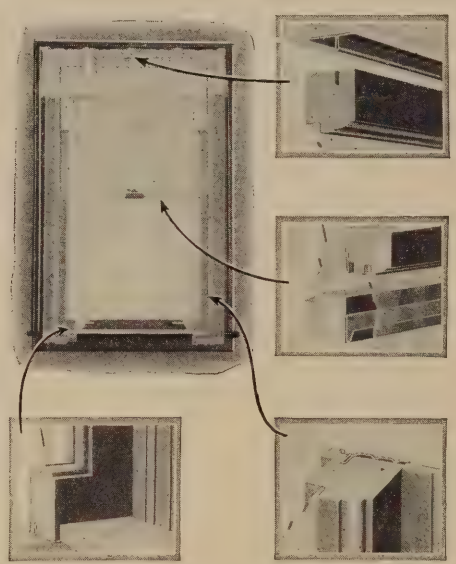
Jamb



Meeting Rails



Sill



A Chamberlin'd Sliding Window

This equipment is the development of thirty-three years of weatherstripping and represents time-tried designs. The tongue of the side, sill and head strips is wider at the tip than at the base, allowing for expansion and contraction.



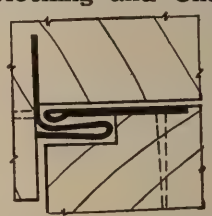
Pulley Guard 1/3 Actual Size

Side strips have raised bearing points (corrugations) to insure easy operation and perfect installation.

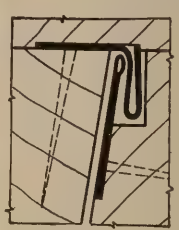
Meeting rail strips are strongly made.

All sheet zinc is cut across the grain to avoid splitting and to obtain maximum strength.

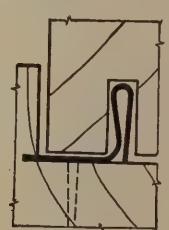
In-Opening Casement Equipment Interlocking and Channel



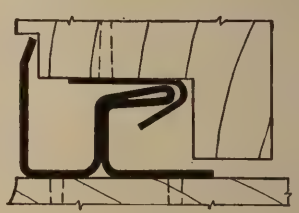
Head and Latch Side



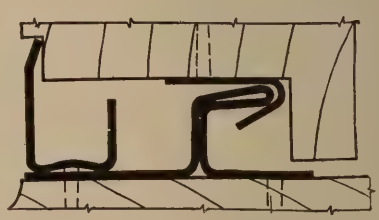
Center



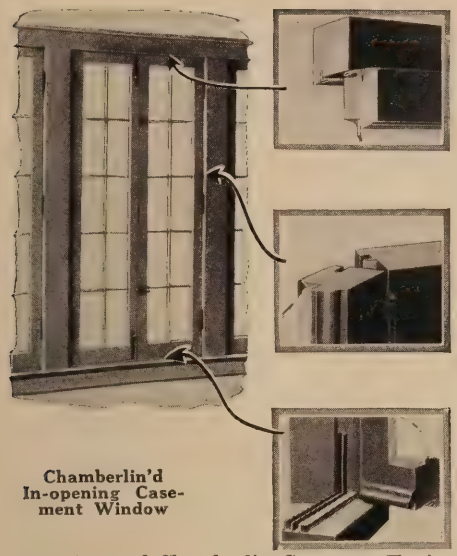
Hinge Side



Sill No. 84



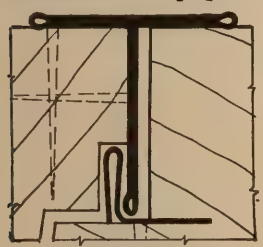
Sill Nos. 82-83



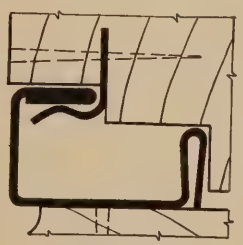
Chamberlin'd In-opening Casement Window

Every type of Chamberlin Casement Equipment is perfected to the highest degree. Chamberlin mechanics install it and thereby weather proof this type of window to the highest possible degree of efficiency.

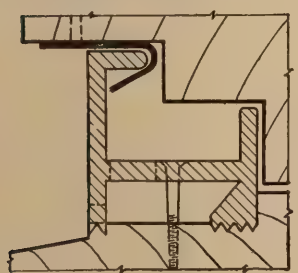
Casement Window Metal Astragal and Alternate Sill Equipments



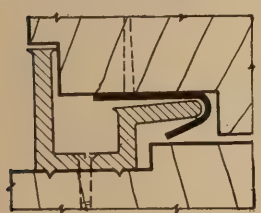
Metal Astragal



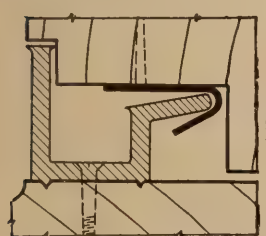
Sill—No. 18



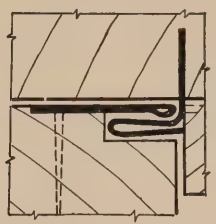
Sill—No. 68-A



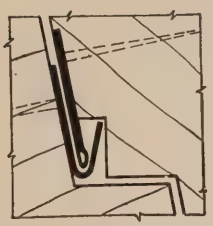
Sill—No. 66



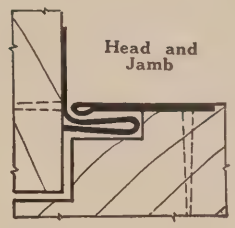
Sill—No. 67



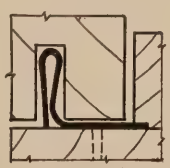
Head and Latch Side



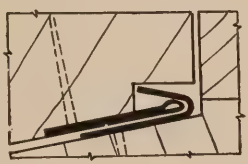
Center



Head and Jamb

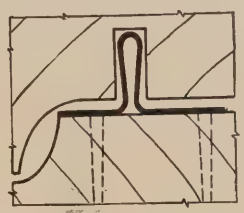


Hinge Side



Sill

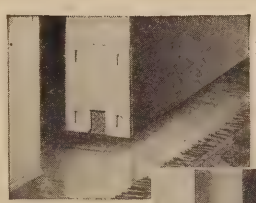
Out-Opening Casement Equipment Interlocking



Sill

Outside Transom Interlocking

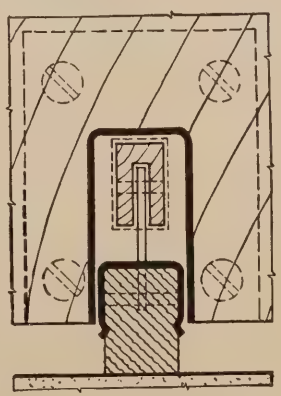
Automatic Inside Door Bottoms



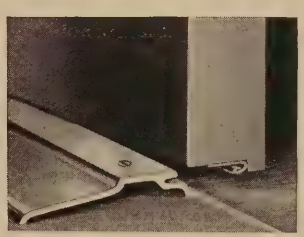
For—
Bedroom Doors
Bathroom Doors
Basement Doors
Closet Doors
Attic Doors



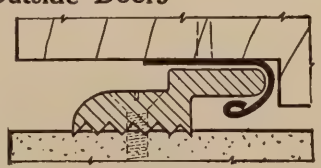
Raised When Door Opens Lowered as Door Closes



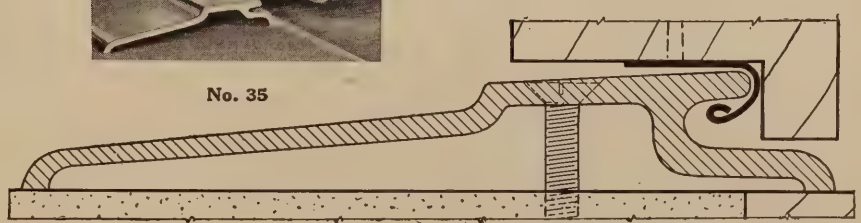
Brass Thresholds for Outside Doors



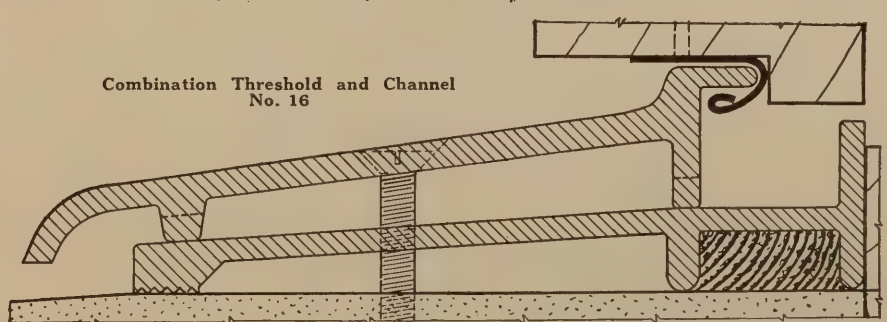
No. 35



No. 69



Combination Threshold and Channel No. 16



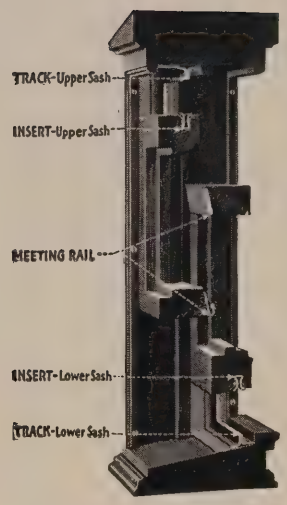
Higgin All Metal Weather Strips

Manufactured and Installed by

THE HIGGIN MANUFACTURING CO.

Newport, Ky.

Sales Agencies in the Larger Cities Throughout the Country.
Look up our Local Office in Telephone Directory or write to Newport, Ky.



The patent INSERT strip makes Higgin Weatherstrips extra draft-tight.

Products:

Higgin All Metal Weather Strips, All Metal Window Screens, Wood Frame Door Screens, Metal Frame Door Screens and Wood Frame Window Screens made to order. (For Screens see page 293.)

We will contract to furnish and install Higgin All-Metal Weatherstrips in new or old buildings.

Service:

We bring to our task of serving you many years of manufacturing experience in various lines. The HIGGIN ALL METAL WEATHER STRIP has been designed to complete and perfect the task of shutting out unbidden air currents around windows and doors. We believe that nothing better exists in its line.

But the installation of the strips is just as important as the construction of the strips themselves. It is, therefore, well to remember that in addition to our sales organization located in principal cities of the country, we also have thoroughly competent skilled fitters operating from the same centers to look after the minutest detail of installation. When your contract is placed with the Higgin organization you may rest assured of its having the most painstaking consideration.

Double Hung Windows:

The Higgin Two-Member Track and Insert Equipment for double hung windows consists of a rib track, fitted to the window frame. The rib or raised portion is ⅜" high and extends into a groove cut into the edge of sash at jambs, head and sill. This strip called the Track is usually made of zinc.

Insert:

The other strip called the Insert fits into the groove in the sash and is so formed that the spring sides or flanges contact lightly with the raised tongue or rib of the track and effectually seal the aperture. This strip is usually made of spring bronze of very thin gauge metal. The Insert resting on the slightly raised portion at base of rib on track insures easy sliding.

Not Affected by Sash Shrinkage:

The Higgin Weather Strip is all metal. There is nothing about it to wear out or get out of order. The method of construction is such that the two parts do not cut or damage each other. The sides only of the Insert come in contact with the tongue of the Track. The efficiency of the equipment is not affected by shrinkage of the sash. If the sash draws away from the frame the sides of the Insert contact with the tongue of the Track and effectually close the space.

NOTE: The Higgin Track for single member strip may be used without the Insert and is as effective as any other single member strip. This single member strip can be furnished at less cost but it is not so effective as when the two-member track and insert equipment is used.

Installation:

Lower Sash—The rib track extends to top edge of meeting rail projecting slightly into the parting strip and also lapping under inside stop. Upper Sash—The rib track extends about one inch below meeting rail, projecting slightly into the outside stop bead. Slot is cut into track to clear pulleys. Head and Sill—Track extends full width of opening. Insert concealed in sash groove, at sides, bottom and head, full length. The meeting rail is equipped with a flat zinc or copper strip attached to top rail of lower sash which interlocks with a hook strip attached to the bottom rail of the upper sash.

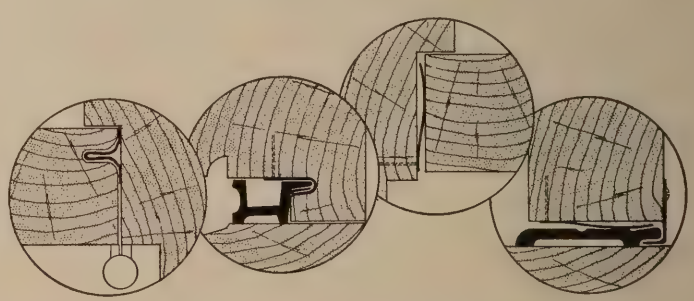
Casement Windows:

The top and lock sides are equipped with a flat zinc or copper strip attached to sash which interlocks with a hook strip of same metal, secured into the rabbet. The hinged side, a rib track is applied, the raised tongue extending into a groove in the sash. The bottom of out-opening sash are usually equipped the same as for top and lock sides. In-opening sash are equipped with an interlocking trough of either brass or zinc. This equipment has proven very efficient in stopping air and water leakage.

Doors:

In the rabbet at sides and head are attached a compression spring bronze strip which contacts with door as it closes. For the bottom an extruded brass threshold with an interlocking brass hook and spring bronze contact strip makes a thoroughly air and water-tight equipment and provides a handsome and permanent threshold.

A line to the Home Office will result in placing you in touch with our nearest sales agency.



For further details and literature, write to: **THE HIGGIN MANUFACTURING CO.** 520 Washington Ave. Newport, Ky.

Monarch Metal Weather Strips

For Wood Windows, Doors & Steel Sash

Manufactured by

MONARCH METAL PRODUCTS CO.

5020 Penrose Street

St. Louis, Mo.

Direct Representatives in All Principal Cities of the United States and Canada.
(See classified telephone directory)

Products

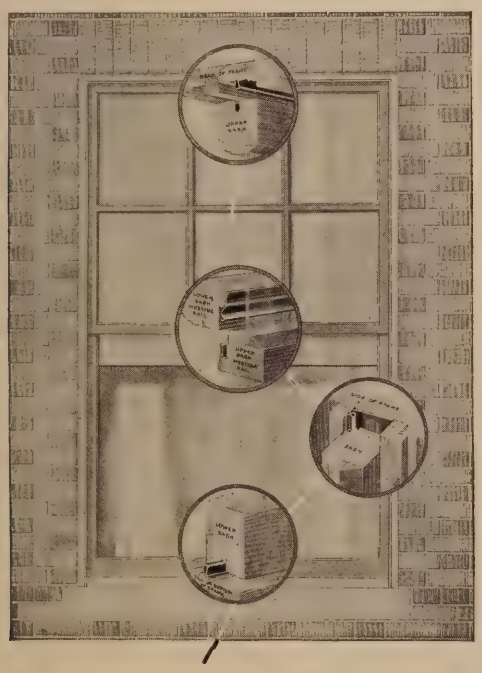
Adjustable Metal Weather Strips. For Casement Hardware (See page 246).

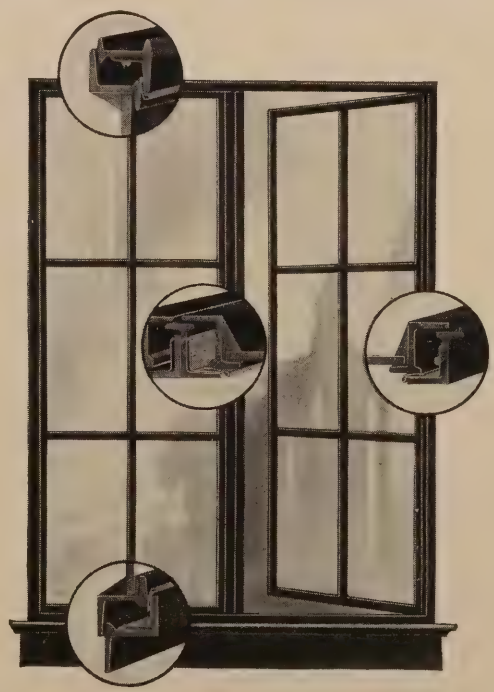
Literature

Write for our Manual on metal Weather Strips for wood windows and doors, and literature for steel sash.

CONTRACTORS', ARCHITECTS', and ENGINEERS' SERVICE

A complete testing laboratory is maintained to investigate leakage through windows and doors, and an engineering department analyzes and prepares reports on these tests for contractors, architects and engineers. We have direct representatives who will be glad to demonstrate samples and quote prices.





Monarch Metal Weather Strips

For Double Hung (Sliding) Wood Windows. Monarch standard equipment consists of two member interlocking self-adjusting metal weather strips on the sides, with rib and liner at head and sills, and bronze and copper adjustable members at the meeting rail. Monarch Metal Weather Strips are the only self-adjusting strips on the market that will take care of the swelling and shrinking of the sash. See details above.

For Casement and Doors. Monarch standard equipment consists of extra heavy extruded brass bottoms and heavy gauge hardened spring bronze members at top, hinge and lock sides.

For Steel Sash. Monarch Metal Weather Strips for this type of sash is a new development which greatly reduces the inleakage of air in building with steel sash Standard equipment consists of heavy hardened spring bronze securely installed in the sash and frame. Can be furnished for casements, projected type and factory side pivoted windows.

In all tests made on the various types of steel sash, standard testing equipment as developed by the Research Laboratory of the American Society of Heating and Ventilating Engineers at Pittsburgh, Pa., was used.

Baker's Rustless Metal Screens



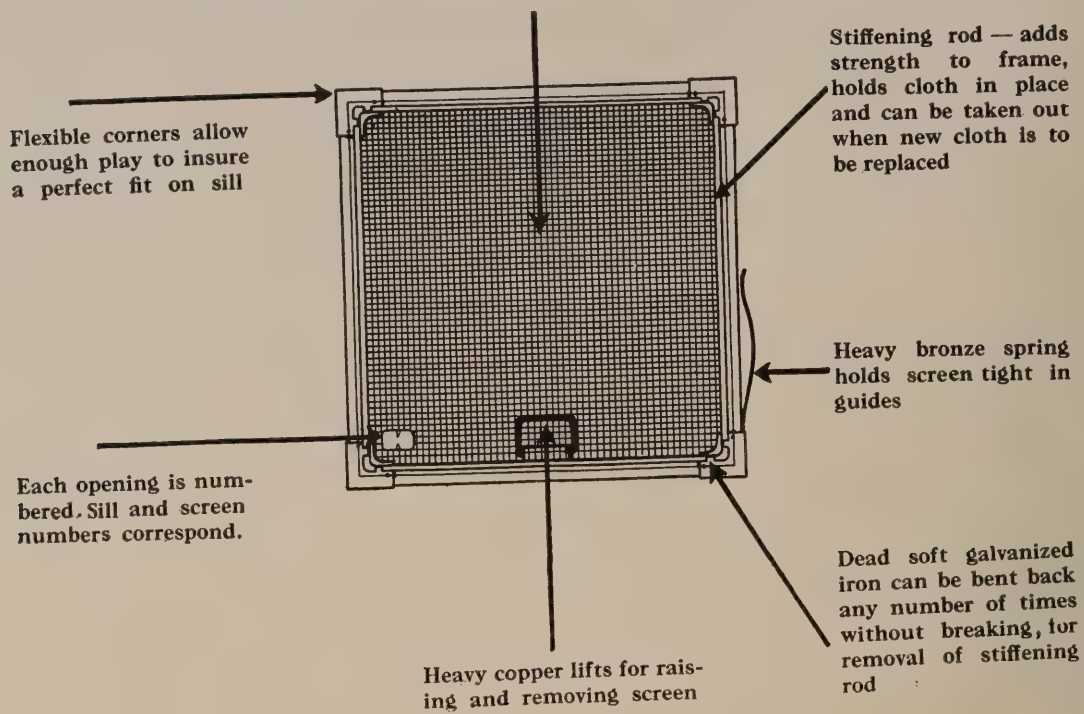
Made by

W. J. BAKER COMPANY, Inc.

NEWPORT, KENTUCKY



NOTE THESE DISTINCTIVE FEATURES OF BAKER'S SCREENS



Products:

This company specializes in the manufacture of Insect Screens—both wood and metal frame. We do not make stock screens but give you a "made-to-measure" screen of the highest quality, yet very reasonable in price.

Metal Screens:

Our Metal Screens are light and graceful in appearance and are recommended because with this form of construction it is possible to reduce the frame-work to a minimum, and to increase the area of screen cloth, admitting more light and air. All of our metal frames are so substantially made and so thoroughly protected against rust that they can be relied on to give years of satisfactory service.

Screen Cloth Easily Renewed:



A cross section of our metal molding is shown full size in this illustration. Note the round rod that adds strength to frame, clamps the screen cloth securely without injuring it, and can be easily removed when new cloth is inserted in the screen. With this form of construction screen cloth can be stretched taut, preventing absolutely unsightly sagging or bulging. Note also how edge of molding laps over rod, sealing the interior of molding against the entrance of dirt or water.

Special Screens:

For double hung windows, sliding sash, or inwardly opening casement windows, outside screens are usually preferred. We build them to cover one-half of the window, or entire opening. Screens slide easily in the guides and are prevented from rattling by a heavy bronze spring—see illustration above.

For casement, or hinged windows, opening out, we recommend our inside, twin sliding screens. These screens do not interfere with curtains or draperies and need be opened only part way to operate sash or awnings.

Made in Three Styles:

B2—Galvanized Steel Frames, enameled. Galvanized Steel Wire Cloth.

B1—Galvanized Steel Frames, enameled. Copper Wire Cloth.

01—Genuine Copper Frames, plain or oxidized. Copper Wire Cloth. No better screen made than this.

We use 16-mesh Jersey Copper Screen Cloth—stiff, strong, durable and so closely woven as to keep out the smallest insects.

Screen Doors:

We make to order Screen Doors from selected, thoroughly seasoned wood, with a minimum thickness of 1⅛ inches. When desired, special grille work can be used in lower portion of door to give additional strength and beauty.

Estimates Promptly Furnished:

Send us your specifications and we will quote prices promptly on Window Screens with rustless metal, or wood, frames; and on Screen Doors.



For further details and literature, write to: **W. J. BAKER Co., Inc., Newport, Ky.**

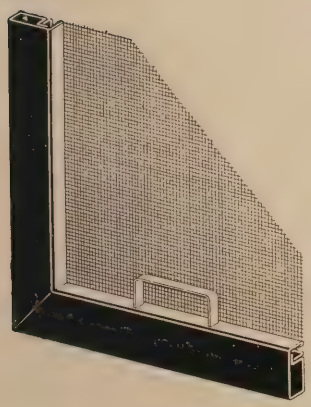
Higgin Window and Door Screens

Manufactured and Installed by

THE HIGGIN MANUFACTURING CO.

Newport, Ky.

Sales Agencies in the Larger Cities Throughout the Country.
Look up our Local Office in Telephone Directory or write to Newport, Ky.



No. 1 Rewirable Metal Frame Screen

Products:

Higgin All-Metal Window Screens, Wood Frame Door Screens, Metal Frame Door Screens and Wood Frame Window Screens made to order. The Higgin Way is to build individual Screens and Doors with Higgin quality in each. Selected by home owners and builders who appreciate the economy of quality. Higgin All-Metal Weather Strips. (See page 290.)

Service:

This Company has been builders of Screens individually designed, measured, manufactured and installed for over 30 years. The selling organization is made up of men thoroughly trained in the business. Offices have been established in principal cities making every section of the country of easy access to one of these offices. Representatives of our organization will cheerfully confer with building contractors and home owners as to the best manner of meeting the conditions presented and suggest the most artistic as well as practical method of designing the work. Estimates of cost furnished from any of these local offices or from the home office.

Installation:

Our fitters are experts employed the year around. We are happily placed in this particular as we manufacture and install Higgin All-Metal Weather Strips as well as Higgin Screens and can, therefore, afford to carry a larger force of competent men than would otherwise be possible.

Metal Frame Screens:

Are of two types as illustrated numbers 1 and 2. Higgin Metal Frame Screens are made of galvanized steel, enameled both inside and outside so that all unsupported and exposed surfaces of the metal are protected. Frames are also made of solid rolled bronze or copper.

Screens illustrated as No. 1 have frames of hollow construction, so made that no solder is used, thus making it possible to thoroughly enamel the inside as well as the outside of the steel frame and bake it at the high temperatures necessary. The surfaces are plain and smooth. The corners have heavy concealed reinforcements, locked mechanically, the outside moulding or frame being neatly mitered. This results in frames of extreme strength and rigidity.

The wire cloth is held in the groove by means of a cam shaped non-resilient spline so formed as to roll into place and lock. This spline can be removed for the purpose of rewiring the screen without damage to either spline or frame. There are no sharp edges to cut the netting, which comes in contact with rounded surfaces only.

Screens illustrated as No. 2 are somewhat less in price than No. 1 and are made with an inside frame of ¼″ galvanized steel or copper clad rod. Around this rod the wire netting is drawn, stretched perfectly tight, and held securely there by the outside mouldings. The netting can not pull out or get loose, and there are no sharp edges bearing against it with a tendency to cut it as it expands or contracts with changes in the atmosphere.

Wire Cloth:

Is of genuine Anaconda Antique bronze wire, 16 meshes to the inch. Finer mesh cloth can also be furnished. This cloth does not require painting. Will not rust.

Double Hung Window Screens:

Screens for double hung windows may be single sliding, double sliding, or full length stationary or hinged. The sliding and full length stationary screens are fitted with compression side springs and seat in metal channels placed on outside stop bead and extend full height of window.

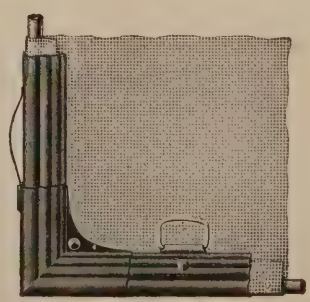
Hinge screens seat in outside rabbet against stop bead. They may be either top or side hinged.

Casement Window Screens:

Screens for casements opening in may be full height stationary set in guides, double sliding or hinged. If double sliding, 1⅛-in. space is required for double guides. Casements opening out may be screened with hinged screens opening in, or with vertical or horizontal double sliding screens. Hinged screens single or in pairs as conditions demand. With hinged screens a rabbet ½ in. deep and not less than ½ in. wide should be provided. Steel Casements in groups of two or more, windows of Hoffman, Whitney or similar types are conveniently screened with horizontal sliding screens. Screens may be divided into as many sections as necessary. Screens slide in a double groove extruded brass track secured to sill.

Door Screens:

Higgin doors are all built to order. In width of rails, finish and kind of wood used, they match the corresponding house doors. All joints are mortised and tenoned, glued and wedged. The wire cloth is rolled with a groove and held in place with a rattan spline covered with a flat moulding. The hardware used is of plain design finished to match the house hardware. Grilles and guards are furnished when specified and are ornamental as well as protection.



No. 2 Metal Frame Standard Screen

Porch Screening:

Screen Porch panels are built to conform to architectural lines of the house and offer an attractiveness as well as affording immense satisfaction and comfort.

Wood Frame Screens:

Are of the highest quality. Built to meet every requirement, as to type, kind of wood and finish. Generally made of White Pine ⅞″ thickness.

A line to the Home Office will result in placing you in touch with our nearest sales agency.

For further details and literature, write to: **THE HIGGIN MANUFACTURING CO.** 520 Washington Ave. Newport, Ky.

Copper Roofing Accessories, Copper and Bronze Screen Cloth, Etc.

Made by

U. T. HUNGERFORD BRASS & COPPER CO.

Main Office: 90 White Street, New York, N. Y.

Boston
411-429 D Street

Baltimore
Lombard & South Sts.

Philadelphia
510 Arch Street

Cleveland
3035 St. Clair Ave.

Pittsburgh
604 Chamber of Commerce Bldg.

St. Louis
1224 Boatmen's Bank Bldg.

San Francisco, 22 Battery Street

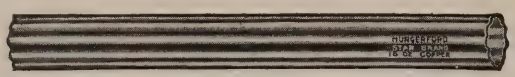
Products

Copper Leaders, Gutters, Mitres, Elbows, Shoes, Strainers, Gutter Hangers, Etc.

Genuine Bronze and Pure Copper Insect Screen Cloths.

Seamless Brass Plumbing Pipe, Brass Fittings and Copper Range Boilers.

Copper Nails, Copper and Bronze Tacks.



Round Corrugated Copper Leader



75° No. 3 Copper Leader Elbow

Hungerford "Star Brand" Copper Roofing Accessories

are economical because they cannot rust and will never require painting or replacement. *The first cost is the last cost.*

For your protection and as our guarantee of full weight, 99.9% pure Copper, every length of genuine Hungerford "Star Brand" Copper Leader and Gutter is indelibly embossed. Leader and Gutter in indelibly embossed "Hungerford 'Star Brand' 16 oz. Copper"

Standard sizes and shapes available for immediate delivery from our warehouse stocks, comprise



Copper Wire Leader Strainer

Copper Leader, 10 Ft. Exact Lengths

Round, Plain, 2", 2½", 3", 4" and 5" diameter.

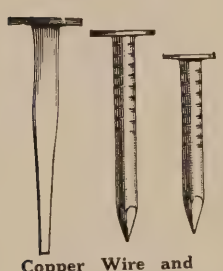
Round, Corrugated, 2", 3", 4", 5" and 6" diameter.

*Square, Corrugated, 2", 3", 4" and 5" diameter.

*From long custom this type of Leader is termed "Square" whereas it is in reality Rectangular in shape. Actual measurements of 2-inch "Square" Leader is 1¾"x2¼", 3-inch—2⅜"x3¼", 4-inch—2¾"x4¼", 5-inch—3¾"x5".



Copper Leader Strap



Copper Wire and Cut Roofing Nails

Copper Leader Elbows, Shoes, Straps, Strainers and Heads

in types and sizes to correspond with Leaders as above.

Copper Gutter, 10 Ft. Exact Lengths

Half Round, Single Bead, 4", 5" and 6" diameter.

Copper Gutter Mitres, Ends and Caps

4", 5" and 6" diameter.



Monarch Shank and Circle Copper Gutter Hanger

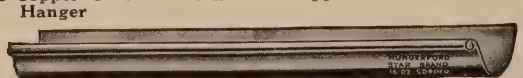
*Copper Gutter Hangers

"Monarch" Shank and Circle, 4", 5" and 6".

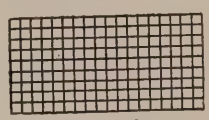
"Rex" Strap, 4", 5" and 6".

"X-L" Strapless, 4", 5" and 6".

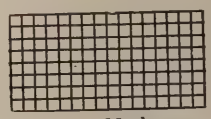
*Galvanized or tinned iron hangers should *never* be used with *Copper* Gutter. Chemical action and ultimate destruction of the hanger will inevitably result. Always use *Copper* Hangers with *Copper* Gutter and fasten with *Copper* Nails.



Copper Gutter



18 Mesh



16 Mesh

Actual Size

Hungerford Genuine Bronze and Pure Copper Screen Cloths

for doors, windows and porches, are strong, durable materials that cannot rust and never need painting. Here again, *the first cost will be the last cost.*

Iron or steel wire screening, even when galvanized, will inevitably rust. Moreover, it requires frequent painting, which means added expense.

The difference in cost between either Hungerford Genuine Bronze or Pure Copper and Galvanized screening is negligible.

Insist upon Hungerford Genuine Bronze and Pure Copper Screen Cloths. Our label on an unopened roll is a guarantee of quality and dependability.

Sizes available for immediate delivery from our warehouse stocks comprise 14, 16 and 18 Mesh, all *even* widths from 18 to 48 inches, in standard rolls of 100 Lineal Feet.



Bronze Screen Cloth

Copper Nails and Tacks

are also available for immediate delivery from our warehouse stocks in all standard types and sizes. The heads on Copper Shingle Nails will *never* rust and snap off. Copper nails are now being used extensively for laying wood and composition shingles.

Hungerford "Star Brand" Seamless Brass Plumbing Pipe, Pipe Fittings and "B-90" Copper Range Boilers

are permanent, non-rusting, economical accessories that should be installed in every house that is being built for comfort and long service. Catalog and full particulars free upon request.



B-90 Copper Range Boiler

Consultation

with our department managers and specialists in the foregoing materials, is freely invited and places you under no obligation whatever.



Seamless Brass Plumbing Pipe

For further details and literature, write to: **U. T. HUNGERFORD BRASS & COPPER CO.** 90 White Street, New York, N. Y.

Ornamental Wire Fences and Screen Wire Cloth

Manufactured by

WICKWIRE SPENCER STEEL COMPANY

And Its Subsidiary

AMERICAN WIRE FABRICS CORPORATION

New York Chicago San Francisco Worcester Los Angeles Buffalo Cleveland Seattle Detroit

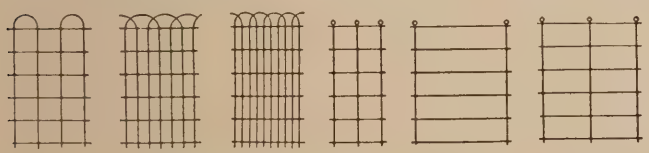
For Wire Lath see page 94

Ornamental Wire Fences and Gates

Excelsior ornamental wire fences have no equal in *strength, appearance* or *durability,* for in no other wire fence can all these three essential features be obtained.

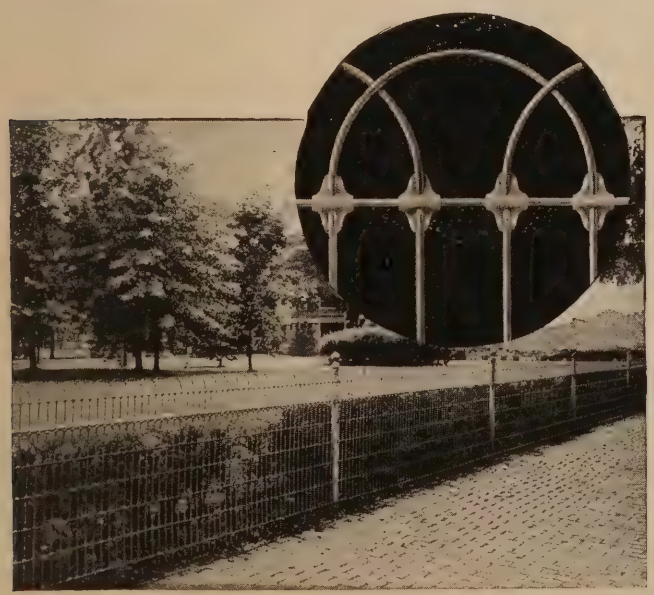
Durability is secured through our special process of galvanizing the fabric after assembling, which covers the fabric with a very thick coating of pure zinc, so that there is not even a tiny crevice or unprotected part of the fabric to collect moisture and destroy the usefulness of the fence through corrosion.

Excelsior ornamental wire fences because of their scientific construction, give the maximum of strength with comparatively few wires. Every running wire is size No. 9, which has a breaking strain of over 1700 lbs. and every vertical wire is size No. 8, specially hard drawn to give the greatest stiffness. These wires



Style No. 1 Mesh 6"x6" | Style No. 4 Mesh 3"x6" | Style No. 6 Mesh 2"x6" | Style No. 10 Mesh 6"x6" | Style No. 8 Mesh 24"x6" | Style No. 9 Mesh 12"x6"

are securely locked together at every intersection by a patented steel clamp, which holds them immovable. The upright No. 8 wire is continuous from top to bottom of the fence, and gives it unusual stiffness vertically, where most needed, for it serves to distribute all downward strains equally through the fence. This rigidity can not be secured in a fence where the vertical wires are small and are wrapped or twisted around the strands.





Excelsior ornamental iron fences and entrance gates are made in a variety of standard sizes and designs suitable for all purposes. We are also prepared to construct to architects' plans and specifications, or develop in our engineering department, special designs to conform to customers' suggestions and special requirements.

Detailed specifications gladly furnished on request.

American or Clinton Brand Window Screen Cloth

Every variety of screen cloth in common use—bronze, copper and zinc-coated—is manufactured by the Wickwire Spencer Steel Co. and its subsidiary, the American Wire Fabrics Corporation. The line includes such famous brands as American Bronze, Clinton Bronze, Galvanoid, Galvex and Zinkaloid.

All these screen cloths are distinguished by their perfect weaving, which produces a good strong selvage and an even mesh. The bronze cloths, which are recommended in preference to copper because they are more rigid and less likely to sag under tension, is made of an alloy of non-corrosive metals of which copper represents about 90 percent.

The Galvanized cloth is made from wires drawn from selected steel and heavily coated with zinc. Their beautiful soft gray color cannot be duplicated with other materials, and they possess long life as well as beauty.

Write for a catalog describing Wickwire Spencer and American Wire Fabrics screenings.



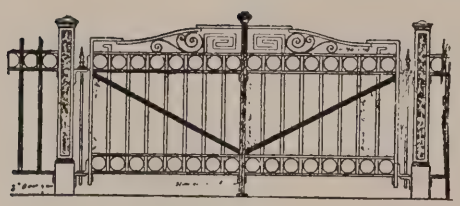
For further details and literature, write to: **WICKWIRE SPENCER STEEL COMPANY,** 41 East Forty-second St. New York

Ornamental Wire and Iron Work

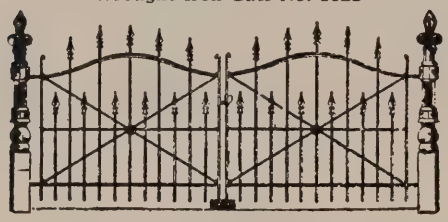
Manufactured by

STANDARD IRON & WIRE WORKS

Chattanooga, Tenn.



Wrought Iron Gate No. 1025



Wrought Iron Gate No. 1026



Wrought Iron Gate No. 1027

Products:

The ornamental iron and wire work usually required in the construction of residences consists of Iron Railings for Porches, Entrance Steps and Stairs, Areas and Balconies. Wrought Iron Entrance Gates and Fences, Cast Iron Coal Chutes, Clean-out Doors, Ash Dumps, Anchors and Window Lintels, Wire Guards, etc.

We make a very complete line of these articles, and on this page give but a few suggestions for porch or balcony railings, gate entrances, etc.

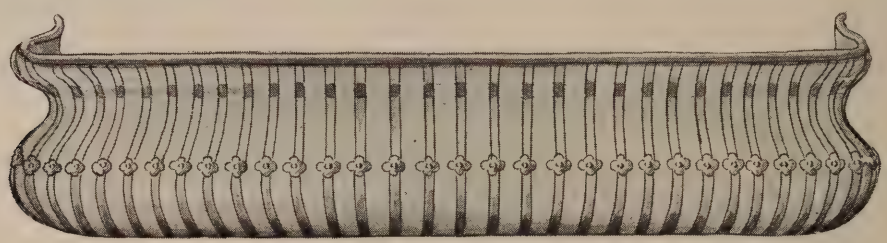
For Wrought Iron Lanterns, Door Hardware, etc. see page 467.

Certain Types of Houses Need Ornamental Iron Work:

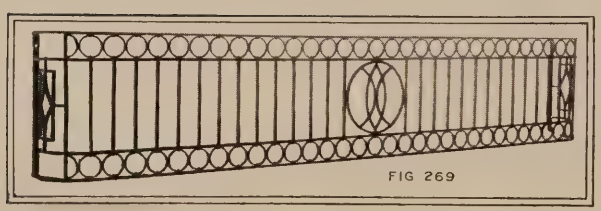
Colonial, English, Spanish and Italian types of architecture require the use of ornamental iron work such as iron railings, iron balconies, iron window grilles, iron door hardware, iron lanterns, etc., to finish them off, make them more complete, add to their beauty.

While these items do not add greatly to the building costs, they do add very materially to the attractiveness of houses of the type mentioned, and should never be overlooked.

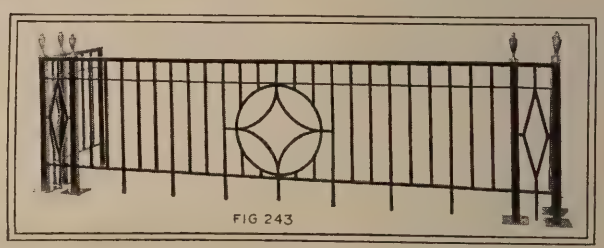
We issue a special folder on Wrought Iron Gates. Balcony and Porch Railings, Iron Balconies, etc., are described and illustrated in Catalog A-21.

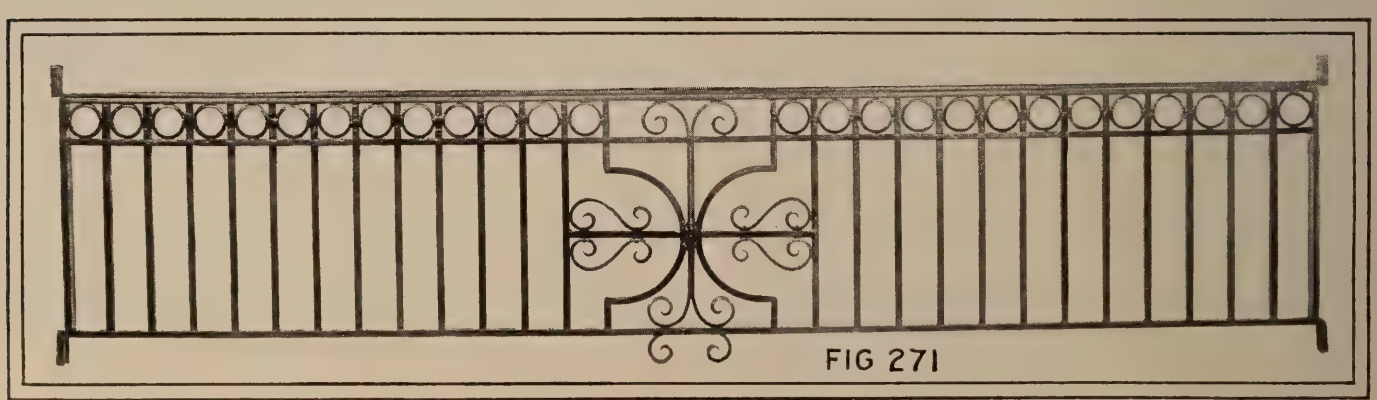


Balcony Railing No. 624—24 in. high



Some Types of Iron Porch Railings





For further details and literature, write to: **STANDARD IRON & WIRE WORKS, Chattanooga, Tenn.**

Goder Incinerators For The Home

Manufactured By

GODER INCINERATOR CORPORATION,

323 N. Michigan Blvd.,

CHICAGO, ILL.

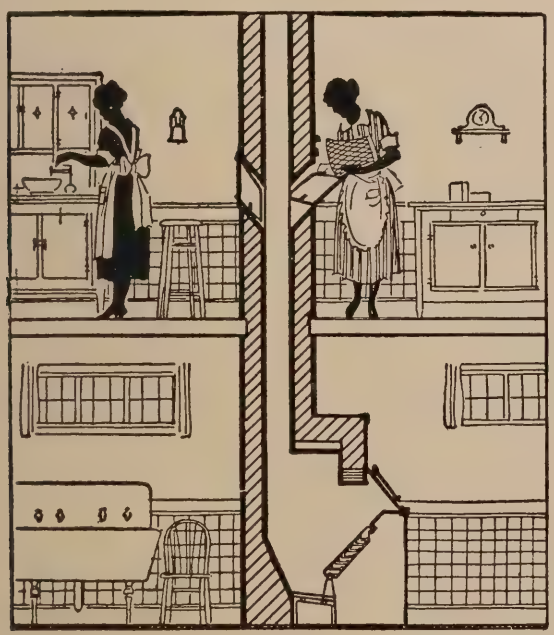
We manufacture Incinerators for every need, ranging in size from the smallest home incinerators to the largest city garbage disposal plants

WASTE DISPOSAL GODER FURNACES

Our representatives are located in all of the principal cities to render competent and valuable engineering assistance to architects, contractors and home builders

CHIMNEY FEED TYPE

Solve the garbage and waste problem perfectly by installing a GODER Incinerator. Reduces fire and disease hazards. Tenants willingly pay more rent with a GODER installation. Pays own cost in economy, convenience and safety.



Model C-1 Chimney Feed Type

Practical Design:

The GODER Model C-1 (chimney feed type) is built of brick. Designed for maximum simplicity and efficiency. The intake doors, built of cast iron, are installed in kitchens or convenient points where garbage and waste is deposited in the chimney, which is used both for feeding purposes and smoke outlet. This model is especially designed for homes and 2 and 3-flat buildings.

Economical Operation:

Materials and waste are deposited in the intake doors and dropped into the Incinerator through the chimney. The waste matter is then burned quickly, completely and without odors. This is made possible by the—

Goder Patented Step-Grate Design:

All Chimney feed type GODER Incinerators are equipped with this special, exclusive feature. (Note illustration.) Allow perfect passage of drafts through fuel bed. Insures high temperature and complete consumption of waste matter. Eliminates odors entirely.

Low Cost:

The GODER Model C-1 is low in first cost because of the step-grate, which affords greater burning capacity per square foot of grate area. Less brick work is required. Incinerator takes up less space—Model C-1 requiring a space only 3′ 5″ wide by 4′ deep.

Easy Installation:

The contractor is furnished with an assembly blue print and, as he builds up the brick work, the intake castings are set into place. The blue print provides complete information so that the contractor can carry on the installation work simply and correctly.

DIRECT FEED TYPE

For Small Homes:

The GODER Model H-1 has been developed to fill a rapidly growing need for a small home incinerator at low cost. Positively the most economical incinerator made for the home. It is built as a complete unit at the factory and shipped ready for operation. Installed in the basement or any other convenient point.



Model H-1 Direct Feed

Direct Feed:

Waste materials and garbage are carried to the incinerator and fed through the charging door. The principles of design closely follow those of the Chimney Feed Type Incinerators. All waste matter thoroughly burned without odors.

Hot Water Heater:

If desired, hot water heater can be installed, thus furnishing a double efficiency and economy.

Specifications for Model H-1:

40″ high, 18″ wide and 26″ deep. Top feed—with 6″ chimney flue for connection to furnace chimney. Equipped either for coal or for gas. Lined with refractory lining to give many years of uninterrupted service.

For further details and literature, write to: **GODER INCINERATOR CORPORATION,** 323 N. Michigan Blvd., CHICAGO, ILL.

Kernerator—The Garbage and Refuse Burner

Made By

THE KERNER INCINERATOR CO.

702 E. Water St., Milwaukee, Wis.

Branches or Agencies in all principal cities.
See Telephone Book for Address.

Product

KERNERATOR Built-in-the-Chimney REG. U. S. PAT. OFF.

This company manufactures the "Kernerator" a built-in-the-chimney flue-fed incinerator for the prompt, safe and sanitary disposal of garbage and refuse of all kinds, by burning, without cost. It is made in various sizes to properly meet the requirements of the small bungalow, or the large residence, also for Apartment Buildings, Schools and Hospitals.

Description: (Refer to illustration opposite)

The Kernerator consists of a brick combustion chamber, with fire brick lining, located in the basement of the building into which is built a special arrangement of grates with patented by pass flue to provide proper Draft control to insure complete successful and odorless combustion of Garbage and Waste.

One or more receiving Hopper Doors (shown below) are located in the flue (Regular Chimney) on the floor or floors above. In homes the Hopper Door is located in or near the kitchen.

The Flue serves as a fall-way for garbage and waste deposited in the Hopper Door; also as a chimney to carry off the products of combustion during burnings.

The Incinerator is constructed in accordance with detailed working drawings which are furnished with the parts. The drawings are clear, and the construction simple—so that the mason has no difficulty in building it.

No Smoke, Heat or Odor Escapes Into Room: There is always a draft into a chimney from the building. When the hopper door is open (when depositing refuse) air is drawn into the flue from the room—there is never any possibility of smoke, heat or odor escaping into the room—the suction of the draft into and up the flue prevents that.

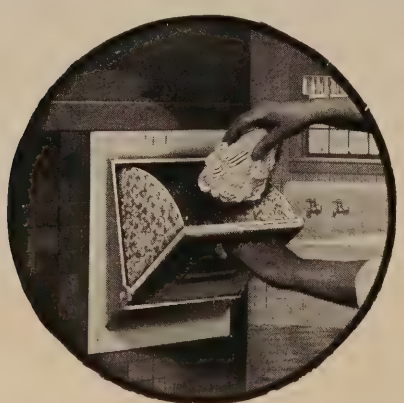
Operation

Into the hopper door is put all refuse of every kind—garbage, tin cans, broken bottles, sweepings, waste paper—everything that is no longer wanted. This falls down the flue into the incinerator in the basement where it distributes itself on the grates into a more or less separated and loose pile permitting draft, fire and heat to circulate through and around it.

When the incinerating chamber is nearly full the waste is ignited and the whole mass burns without further attention. Watermelon rinds and other large pieces of vegetable matter may not be entirely consumed in one burning, but they will be smoked, sterilized and dried and will form fuel for the next burning.

The fire sterilizes the entire chimney flue, maintaining a sanitary condition throughout. The smoke soots the chimney walls and prevents any garbage from adhering to them. The inside of the incinerator contains soot, gas and creosote—all preservatives created by the action of the flames—which kill all odors and germs. Garbage cannot decay between burnings for the same reason that meats do not decay when stored in the old-fashioned smokehouse.

Every few months, or as often as desired, the ashes, tin cans and other non-combustible material accumulated on the grates can be dumped into the ashpit and removed.

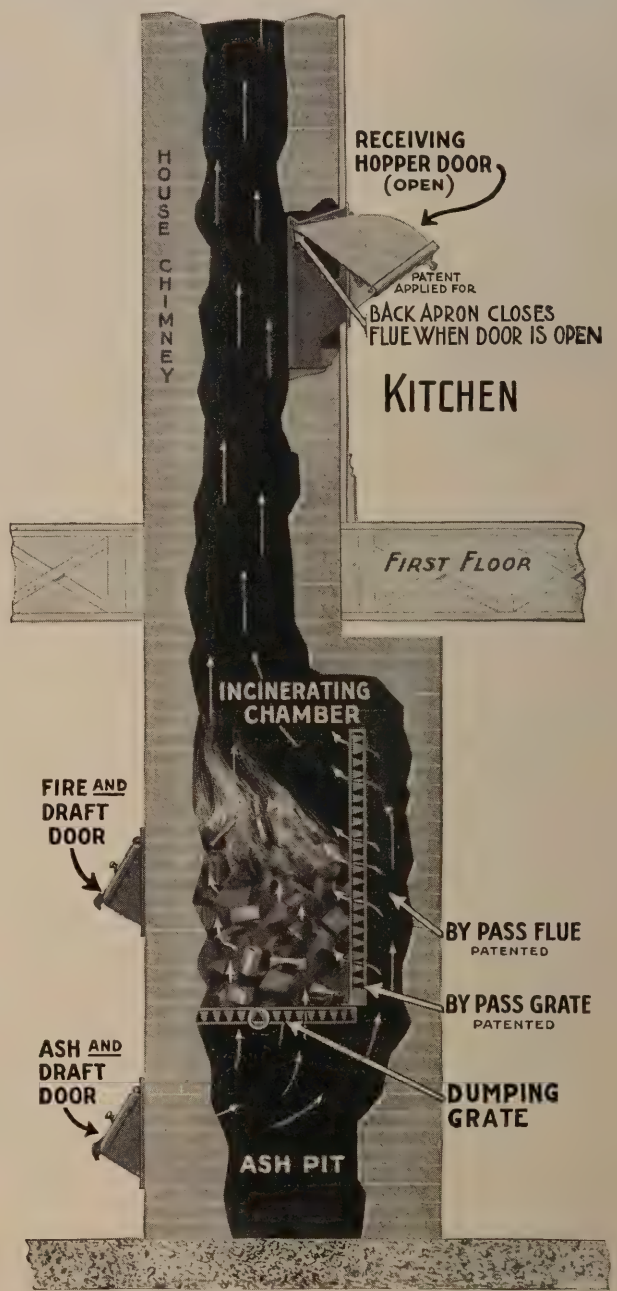


The Handy Hopper Door

Is conveniently located in the kitchen, where table refuse is immediately disposed or without leaving the room. No trips outside to a garbage receptable. No accumulation of rubbish in cellar or attic waiting for "Clean-up Week."

The By-Pass Flue and Vertical Grate

At the side of the horizontal grate on which refuse falls is the by-pass or vertical grate. Behind this is the by-pass or secondary flue. During burnings air comes up this flue, passes through the vertical grate and feeds heated oxygen to the fire, which is always on top of the burning material. Gases liberated from the refuse by the heat pass up through the flames and are consumed. This is what enables the Kernerator to destroy all waste without the addition of commercial fuel, and it is an exclusive patented feature.



Patented Aug. 25, 1914, March 18, 1919.

Notice the draft reaching point of burning through By-pass grate. The fire burns from top downward, consuming offensive odors.

Kernerator—The Garbage and Refuse Burner (Continued)

Three Distinguishing Points

The Kernerator destroys all refuse on the premises where it originates—destroys it by burning—burns it without cost—in the most convenient, sanitary and economical way, with only one handling.

Advantages

Sanitary—All unsanitary garbage and refuse containers, pits and screened locations are done away with. Nothing to draw flies, or other disease-carrying insects or vermin. Authorities agree that the proper method of garbage and waste disposal is to burn it on premises under the proper conditions.

Safety—Waste piles are a fertile breeding ground for disease germs. Accumulations of rubbish in the basement are an ever present fire and health hazard. The Kernerator eliminates this nuisance and danger.

Convenience—The safe disposal of all table, kitchen and household waste, is done immediately without effort. Seventy percent of the housewife's time is spent in "cleaning-up." Much of this time is saved by the handy Kernerator door, right there in the kitchen.

Economy—The Kernerator costs nothing to operate. The waste itself is fuel for its own destruction.

Money Back Guarantee

Every Kernerator is sold with the understanding that the method of burning, storing and sterilizing kitchen waste and household refuse in the Kenerator is strictly sanitary and efficient. Any time within six months after installing, in accordance with plans and specifications, and after a reasonable and fair trial, should method not prove satisfactory, metal parts may be returned to the Company and within 15 days all money paid the Company for them will be refunded together with transportation charges.

Note: With thousands of installations and years of service we have never had an Incinerator returned to us.

Flue Areas

The schedules below governs the minimum inside flue areas for chimneys to serve the Kernerator:

Where one Hopper Door is installed on first floor 12″x12″ flue; where Hopper Doors are installed on 2 to 6 floors 16″x16″ flue; 7 to 10 Floors 20″x20″ flue, or larger flues in each instance.

Include Kernerator in Building Plans

The best time to install a Kernerator is when the foundation of a home is built—include it in the general masonry bids. If added as an extra the masonry costs may be higher.

If there is a 12″x12″ flue in or near the kitchen, the installing of a Kernerator in an existing home is a simple matter.

Smoke or vent pipes from boilers, furnaces, ranges, water heaters, etc., may be connected to the same chimney as the Kernerator if desired without any interference with their operation or that of the Kernerator. The one exception is fireplace flues—which cannot be joined to same flue as Kernerator.

Special Service

We have sets of different basement layouts for incinerators, one of which will undoubtedly fit into your plans without any changes. These suggested layouts will be gladly mailed on request.



A general view of a Kernerator as installed in the average home with the convenient Hopper Door in the kitchen — a feature highly prized by every housewife.

For further details and literature, write to: **THE KERNER INCINERATOR CO.** 702 E. Water St. MILWAUKEE, WIS.

Electric Wiring of Dependable Quality

Guarantees the Comfort and Convenience of the Home

What Is It People Look for In a Home Today?

For a long time builders pointed every effort at charm. Graceful lines, colorful roofing and interesting arrangement of rooms were the things considered and recommended many times in the planning of a home.

Today, one more topic has reached the conference — electricity. Wiring the house to get beautiful and correct lighting — wiring the house to lighten housekeeping duties — wiring it to get complete comfort— these are the ideals of today's home-planners. And time spent over wiring plans is well spent, indeed! Wiring is no less important than the heating and plumbing layouts. And what conference between builder and would-be home owner is complete without these matters being discussed in great detail?



Planning Wiring from the Start

Wiring is hidden in the walls. That is why it pays to plan it very carefully before the walls are finished. After-jobs are always costly. It is just as easy—in fact easier—to put all the lights and switches right in at the start instead of waiting until they are missed. Certainly it is cheaper. Many home owners say, "If only I could plan the wiring of this house over again." How much better to study the matter out carefully first.

Wiring Is Just a Small Part of the Cost

Wiring costs little in proportion to the total cost of building. A complete wiring system of good quality is a well paying investment.

With the new intelligence concerning wiring, demand for the high-quality system has become insistent. Today everyone realizes that ultimate economy and safety depend on it and that no home is desirable unless it is wired for lasting comfort.

Complete Wiring Adds Value to the House

The installation of a complete system of wiring for electricity always puts into the house a value far in excess of the small sum which the wiring actually costs. It represents value that will be returned in full should the house be sold, or value that will bring its own annual interest—will help pay for itself if the house should be rented.

In other words, the value of a complete electrical wiring installation is not to be measured in terms of expense, but rather as an investment both for personal convenience and real profit in the end.

Electric Wiring of Dependable Quality

Guarantees the Comfort and Convenience of the Home

Complete Wiring for Complete Comfort

Homebuilders today react very quickly to complete wiring in a finished house or merely in plan form. They know it means complete comfort.

Just suppose you could go through such a house as this. Picture to yourself what your reaction would be.



A Friendly Doorway

The doorway is hospitable. Its bracket lights, one on either side, guide guests to the door and gleam a welcome.



A Pleasant Hall

At the first step indoors you come within reach of a tumbler switch—at once the whole hall is flooded with light. You notice a convenience outlet in the baseboard. It suggests the decorative lamp set on a table, or a cooling electric fan. You also see at a glance how easy it will be to keep the hall clean. Your vacuum cleaner will plug in conveniently. Another button at the foot of the stairs catches your eye. You press it curiously and the light in the hall upstairs gleams out, brightening the whole stair-way.



A Living Room that Gives Living-Ease

Now turn into the living room. You cannot but approve of the way the fixtures are arranged. The centre fixture lights the whole room cheerfully. The wall brackets throw interesting spots of light into the corners. There are a number of convenience outlets. (The rule of the house is an outlet to every 50 square feet of floor space.) You can picture the glowing lamps—one near a big comfortable reading chair—one in the corner where you might stage a card game and one next to the piano. And then you can imagine a comforting electric fan in the room next summer, direct connected radio set, and of course the electric vacuum cleaner in cleaning hours. The whole room suggests ease, charm, and restfulness.

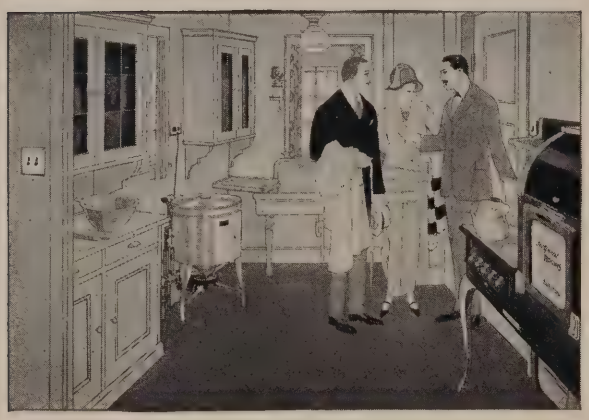


A Dining Room With Extra Comforts

Now for the dining room. Probably the first things that interest you are the extra number of convenience outlets—extra comforts. Immediately a picture flashes into your mind. You are seated at breakfast. The electric coffee percolator is bubbling in front of you. Easy to reach out and take a fresh cup without stirring from your seat. And fresh toast is crisping in the electric toaster. Everything within reach. Then you notice the lighting. The centre fixture throws a pleasant amount of light on the table, and the wall brackets add to the charm of the room.

Electric Wiring of Dependable Quality

Guarantees the Comfort and Convenience of the Home



Light Housekeeping in the Kitchen

Through the swinging door and into the kitchen. "Will housekeeping be a burden of long hours and tedious tasks?" That's the question in your mind as you look about. But very soon all doubts are set at rest. You notice that the lighting is carefully planned—no shadows to make kitchen jobs harder. There's a center fixture on the ceiling for the main illumination. There's a lamp over the sink and a lamp over the kitchen table. The electrical stove is a great convenience—no coal or ashes to cart—and no fuel odors. In a wall placed at arm's height you notice a twin convenience outlet. You won't have to stoop to plug in electrical kitchen utensils—electric egg beater, household motor for mixing bread, ice cream freezer, meat grinder. And then, too, this outlet is near the sink and it can be used for the electric dishwasher.



A Sun Parlor Planned for Leisure

Before mounting the stairs you explore the sun parlor. You see at a glance that it is the sort of a place you will enjoy lounging in. The centre light, brightening the whole room, may be turned on from the dining room before you step out. There is a twin convenience outlet in the baseboard. A table lamp will fit in here, possibly for a desk; for the sun parlor is a pleasant spot to work in. Occasionally you may want to bring your coffee percolator out here, or have a chafing-dish party. The convenience outlet will come in very handy. There is also another one on the wall opposite—up high. An electric fan will be an added comfort here. And, of course, the sun parlor will be just as easy to keep clean as the other rooms. The vacuum cleaner will do the job quickly.

Up a Well-Lighted Stairway

Back to the hall where at the click of a switch a full light is thrown on the stairway and the hall above is also lighted. Once up the stairs you can turn off the downstairs light with a switch at the top of the stairs. The upper hall has the same convenience that the lower had. The convenience outlets are for an extra lamp, an electric fan, or the vacuum cleaner.



A Bedroom with all the Details of Comfort

Then into a bedroom. At once you see that comfort has been planned and put right into its walls. The centre light switches on at the door. On the wall there are two sets of two brackets placed to accommodate a dressing table and a desk between them. No shadows to disturb you when you are dressing or writing—the light on either side takes care of that. And then there is a convenience outlet at the baseboard next to the dressing table. You can use this for hair curler, vibrator, immersion heater. The convenience outlet at the desk is for an extra lamp.

Electric Wiring of Dependable Quality

Guarantees the Comfort and Convenience of the Home



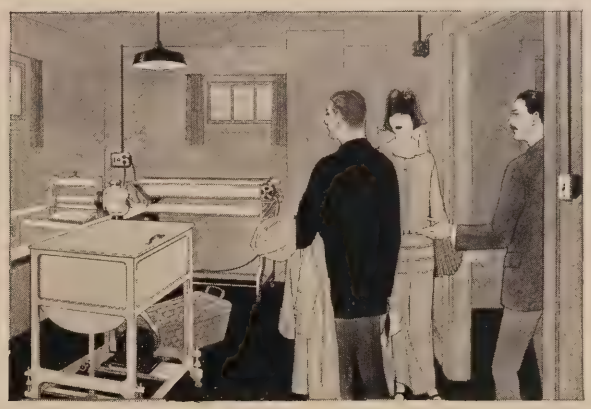
Looking over at the beds you see a convenience outlet between them, and if you like to read in bed, you mentally place a lamp and a table there. You also are pleased to see that there is a switch in the wall within your reach when in bed, by which you can turn on and off the lights of the room.

You then open the closet door—and find it lighted. No squinting about in the dark for clothes. When you shut the door the light goes off. No forgetting to turn off the light when you're in a hurry. It's automatic, controlled by the opening and closing of the door.



And the Bathroom Has Special Comforts

The bathroom is the next room to inspect. It is just as complete. A switch near the door lights up the center fixture. There are two brackets on either side of the mirror to throw even light without shadow. And a convenience outlet at arm's height in the wall makes it possible for you to attach a heater or electrical toilet accessories. That completes the second floor, for the other bedrooms and bathrooms are equally pleasant and complete.



Even the Cellar Is Cheerful

And so down you go two flights turning on and off lights as you go. The laundry is in the cellar—and here electricity is of the utmost importance. The place is well lit with one powerful centre lamp. A double convenience outlet in the wall at arm's height takes care of the electric washing machine, ironing machine, or electric iron. In another corner of the cellar are the vegetable and coal bins and the heater room. A lamp is centrally placed at each of these spots. And in the heater room you see the safety distribution panel and safety switch —safety-assurance for the whole wired house.

With a final look at the cellar, your tour of inspection is over. You step back to the hall and announce — approval or disapproval? *Surely, approval!*

Today People Want to Buy COMFORT As Well As a Home

Such a home as the one just described wins immediate approval. It brings up pictures of happy hours—of daily living without the usual worry and fuss—of ease at work and comfort during leisure.

People are willing — more than that — anxious, to pay for this. The little difference in the cost of a meagerly wired home and a home with complete wiring system does not count in the face of such comfort. And the finished or planned home that has comfort built right into its walls wins immediate favor with father, mother, children, everyone!

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service

The Importance of Quality Wiring

With wires and wiring materials built into the walls and hidden under floorboards, the only safe and economical wiring is the kind that will last as long as the building. That is why it is so important to use only G-E materials from start to finish.

A Feature that Adds Value to a House

If you can show a man or a woman how completely a house is wired, for utmost comfort and convenience, you have a valuable selling point for the house. If you can also say that the wiring material is G-E *throughout,* you have a ready proof of quality construction in the hidden points. For G-E are the initials of a friend not only to the architectural profession and members of the electrical industry but are equally well and favorably known to the great army of American house-holders and owners. The house, with the G-E wiring system in it, commands a higher price—and a quicker sale.



What Is a G-E Wiring System?

The G-E Wiring System is a system of house-wiring, embodying adequate outlets conveniently controlled, and using G-E materials throughout. It provides a minimum of one lighting outlet and one convenience outlet for every fifty square feet of floor space and switch control at every doorway.

It is a *guaranteed wiring system,* because General Electric, with all its prestige and reputation, stands squarely behind the quality of every piece of G-E material. It is a G-E contribution to the well-being and prosperity of American home-owners.

G-E Wiring System Simplifies Bids and Insures Quality Installation

Having specified the G-E Wiring System, the general contractor knows that all electrical contractors are basing their bids on identical material; and that variations in bids represent factors other than the quality of the materials used on the job. By specifying and installing the G-E wiring system, both building and electrical contractors may unreservedly guarantee satisfaction and trouble-free service for the life of the house itself.



When the G-E Wiring System is specified, the builder is assured of a complete service which relieves him of the trouble of examining, classifying and specifying the diversified products of a number of manufacturers; and he retains authority over the wiring installation. This is a mighty important fact to remember, for this is a feature just as individual to the G-E Wiring System as is the excellence of the products themselves.

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

GE WIRING SYSTEM —for lifetime service

GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

The G-E Wiring System is Nationally Advertised

It is always easier to sell a product that is made by a manufacturer whom everybody knows. The G-E Wiring System is advertised from coast to coast, in two-color pages in the Saturday Evening Post. This campaign is making the average man and woman acquainted with wiring systems —appreciate the importance of *quality* wiring—and willing to *pay* for the highest quality.



Electrical Specification Data

General Electric engineers, working with experienced architects throughout the country, have prepared a book of "specification data" for architects, and a companion book for contractors. Any architect, or a builder who plans a house without the help of an architect, can list his wiring specifications in accurate detail, simply by copying from this book. It has specifications for five different types of houses, ranging in value from $6,000 to $50,000.

This book, "Electrical Specification Data for Architects," is now available, without charge.

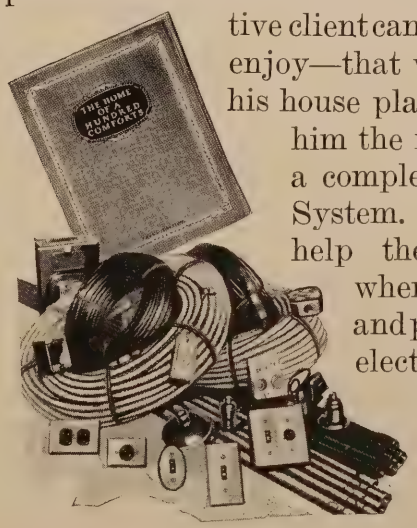
G-E Proposal Forms

To help the electrical contractor—but just as much, to help the builder or architect to study his wiring bids quickly and simply —General Electric has prepared "proposal sheets" for the presentation of wiring bids. Every electrical contractor using G-E materials can obtain a supply of these, and you will be making your own job easier if you insist on seeing the bid neatly outlined for quick reading on a G-E form.



How the "Home of a Hundred Comforts" Helps the Builder

Any builder planning a home for a prospect will find this book one that his prospective client can understand and enjoy—that will help him in his house planning—and sell him the idea of wanting a complete G-E Wiring System. This book will help the builder, too, when he talks plans and prices. Ask your electrical contractor for a copy of the "Home of a Hundred Comforts".



For further details and literature, write to: **GENERAL ELECTRIC COMPANY** Merchandise Division, Bridgeport, Conn.

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

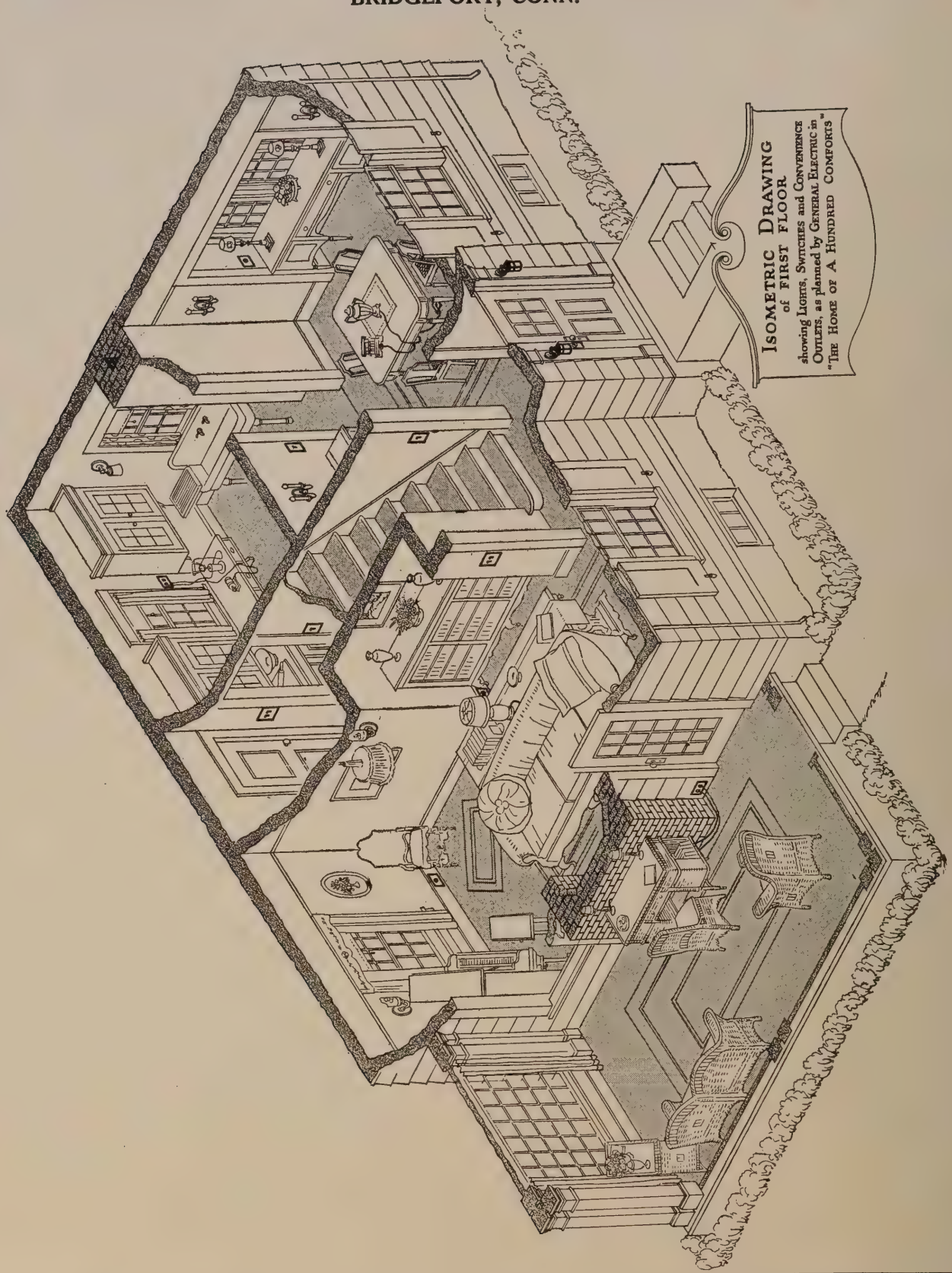
GE WIRING SYSTEM —for lifetime service

GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service



ISOMETRIC DRAWING of FIRST FLOOR showing LIGHTS, SWITCHES and CONVENIENCE OUTLETS, as planned by GENERAL ELECTRIC in "THE HOME OF A HUNDRED COMFORTS"

For further details and literature, write to: **GENERAL ELECTRIC COMPANY** Merchandise Division, Bridgeport, Conn.

See Next Page

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

GENERAL ELECTRIC COMPANY

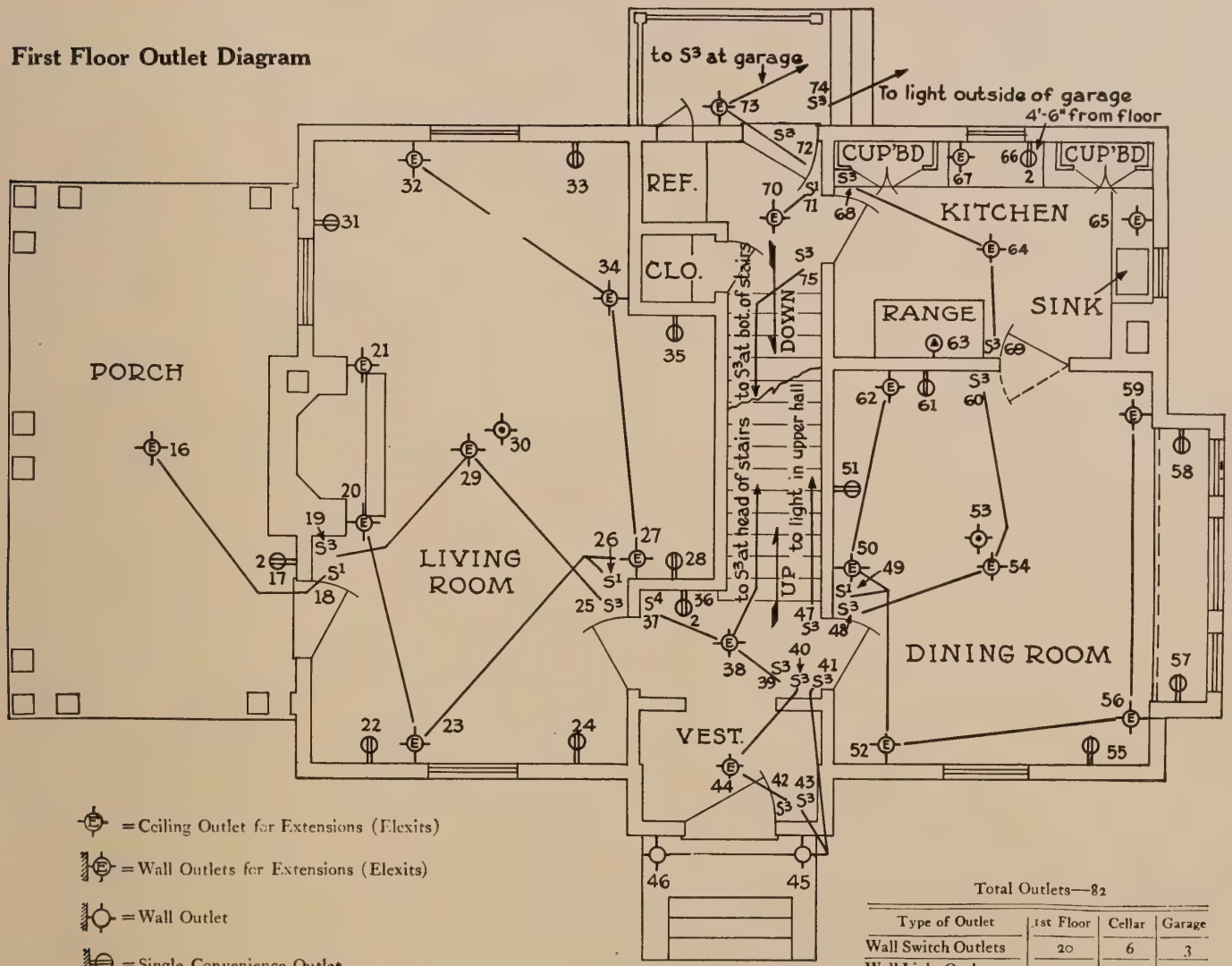
Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service

First Floor Outlet Diagram



= Ceiling Outlet for Extensions (Elexits)

= Wall Outlets for Extensions (Elexits)

= Wall Outlet

= Single Convenience Outlet

= Double Convenience Outlet

= Floor Outlet

= Range Outlet

S^1 = Single-pole Tumbler Switch

S^2 = Double-pole Tumbler Switch

S^3 = Three-way Tumbler Switch

S^4 = Four-way Tumbler Switch

Total Outlets—82

Type of Outlet	1st Floor	Cellar	Garage
Wall Switch Outlets	20	6	3
Wall Light Outlets	15		
Ceiling Light Outlets	8	6	2
Convenience Outlets	16	3	2
Range Outlet	1		

Note.—Where Elexits are indicated other types of outlets may be substituted.

* **Vestibule**

42—3-Way Tumbler Switch GE1690, controls No. 44 Ceiling Elexit.

43—3-Way Tumbler Switch GE1690, controls Nos. 45 and 46 Entrance Lights.

44—Ceiling Elexit LX200. 25-watt lamp is recommended.

* **Hall**

37—4-Way Tumbler Switch GE1691, controls No. 38 Ceiling Elexit.

39—3-Way Tumbler Switch GE1690, controls No. 38 Ceiling Elexit.

40—3-Way Tumbler Switch GE1690, controls No. 44 Vestibule Elexit.

*The numbers in this column identify the outlets shown on floor plan.

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service

Hall—(Continued)

NOTE.—Where Elexits are indicated other types of outlets may be substituted.

41—3-Way Tumbler Switch GE1690, controls Nos. 45 and 46 Entrance Lights.

47—3-Way Tumbler Switch GE1690, controls No. 101 Upper Hall Ceiling Elexit.

36—Twin Convenience Outlet GE694, furnishes power for table lamp, vacuum cleaner, etc.

38—Ceiling Elexit LX200. 50-watt lamp is recommended.

Living Room

25—3-Way Tumbler Switch GE1690, controls No. 29 Ceiling Elexit.

19—3-Way Tumbler Switch GE1690, controls No. 29 Ceiling Elexit.

26—S-P. Tumbler Switch GE1688, controls Nos. 20, 21, 23, 27, 32 and 34 Wall Elexits.

18—S-P. Tumbler Switch GE1688, controls No. 16 Ceiling Elexit.

24—Single Convenience Outlet GE658
22—Single Convenience Outlet GE658
31—Single Convenience Outlet GE658
33—Single Convenience Outlet GE658
35—Single Convenience Outlet GE658
28—Single Convenience Outlet GE658
30—Single Convenience Outlet GE658
} furnishes power for portable lamps, electrically operated musical instruments, vacuum cleaners, fans, etc.

20—Wall Elexit LX111. 15-watt lamp is recommended.

21—Wall Elexit LX111. 15-watt lamp is recommended.

23—Wall Elexit LX111. 25-watt lamp is recommended.

27—Wall Elexit LX111. 25-watt lamp is recommended.

32—Wall Elexit LX111. 25-watt lamp is recommended.

34—Wall Elexit LX111. 25-watt lamp is recommended.

29—Ceiling Elexit LX200. 200-watt lamp is recommended.

Sun Porch

17—Twin Convenience Outlet GE694, furnishes power for portable lamps, fan, cooking appliances, vacuum cleaner, etc.

16—Ceiling Elexit LX200. 75 watts if lamp is of diffusing quality, otherwise only 50, is recommended.

Dining Room

48—3-Way Tumbler Switch GE1690, controls No. 54 Ceiling Elexit.

60—3-Way Tumbler Switch GE1690, controls No. 54 Ceiling Elexit.

49—S-P. Tumbler Switch GE1688, controls Nos. 50, 52, 56, 59, 62, Wall Elexits.

51—Single Convenience Outlet GE658
55—Single Convenience Outlet GE658
57—Single Convenience Outlet GE658
58—Single Convenience Outlet GE658
61—Single Convenience Outlet GE658
53—Single Convenience Outlet GE658
} furnishes power for cooking appliances, electric candlesticks, glow heater, fan, vacuum cleaner, etc.

50—Wall Elexit LX111. Two 15-watt lamps are recommended.

52—Wall Elexit LX111. Two 15-watt lamps are recommended.

56—Wall Elexit LX111. Two 15-watt lamps are recommended.

59—Wall Elexit LX111. Two 15-watt lamps are recommended.

62—Wall Elexit LXIII. Two 15-watt lamps are recommended.

54—Ceiling Elexit LX200. Two 100-watt lamps in dome fixture are recommended.

Kitchen

69—3-Way Tumbler Switch GE1690, controls No. 64 Ceiling Elexit.

*The numbers in this column identify the outlets shown on floor plan.

68—3-Way Tumbler Switch GE1690, controls No. 64 Ceiling Elexit.

66—Twin Convenience Outlet GE694, furnishes power for fan, utility motor, beaters, iron, etc.

63—Special Convenience Outlet GE694, furnishes power for electric range.

65—Wall Elexit LX111. 25-watt lamp is recommended.

67—Wall Elexit LX111. 25-watt lamp is recommended.

64—Ceiling Elexit LX200. 100-watt lamp is recommended.

Back Hall and Porch

75—3-Way Tumbler Switch GE1690, controls No. 12 Main Cellar Light.

71—Single-pole Tumbler Switch GE1688, controls No. 70 Hall Center Elexit.

72—3-Way Tumbler Switch GE1690, controls No. 73 Back Porch Light.

74—3-Way Tumbler Switch GE1690, controls No. 132 Light Outside Garage.

70—Ceiling Elexit LX200. 25-watt lamp is recommended.

73—Wall Elexit LX111. 25-watt lamp is recommended.

Cellar

11—3-Way Tumbler Switch GE1690, controls No. 12 Main Cellar Light.

1—S-P. Surface Tumbler Switch GE970, controls No. 2 Heater Room Light.

5—S-P. Surface Tumbler Switch GE970, controls No. 4 Fuel Room Light.

7—S-P. Surface Tumbler Switch GE970, controls No. 6 Storage Room Light.

8—S-P. Surface Tumbler Switch GE970, controls No. 9 Laundry Light.

14—S-P. Surface Tumbler Switch GE970, controls No. 15 Vegetable Room Light.

3—Single Convenience GE658, furnishes power for trouble light, fan, etc.

10—Twin Convenience Outlet GE694
13—Twin Convenience Outlet GE694
} furnishes power for electric tools, washing machine, ironer, etc.

2—Ceiling Lamp Receptacle GE088. 25-watt lamp is recommended.

4—Ceiling Lamp Receptacle GE088. 25-watt lamp is recommended.

6—Ceiling Lamp Receptacle GE088. 25-watt lamp is recommended.

9—Ceiling Lamp Receptacle GE088. 75-watt lamp is recommended.

12—Ceiling Lamp Receptacle GE088. 75-watt lamp is recommended.

15—Ceiling Lamp Receptacle GE088. 25-watt lamp is recommended.

Garage

132—3-Way Tumbler Switch GE1690, controls No. 132 Light Outside Garage.

133—3-Way Tumbler Switch GE1690, controls No. 173 Back Porch Light.

134—S-P. Tumbler Switch GE1688, controls No. 137 Center Light.

135—Twin Convenience Outlet GE694, furnishes power for Tungar battery chargers, electric tools and appliances.

137—Ceiling Lamp Receptacle GE088. 75-watt lamp is recommended.

138—Ceiling Lamp Receptacle GE088. 75-watt lamp is recommended.

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

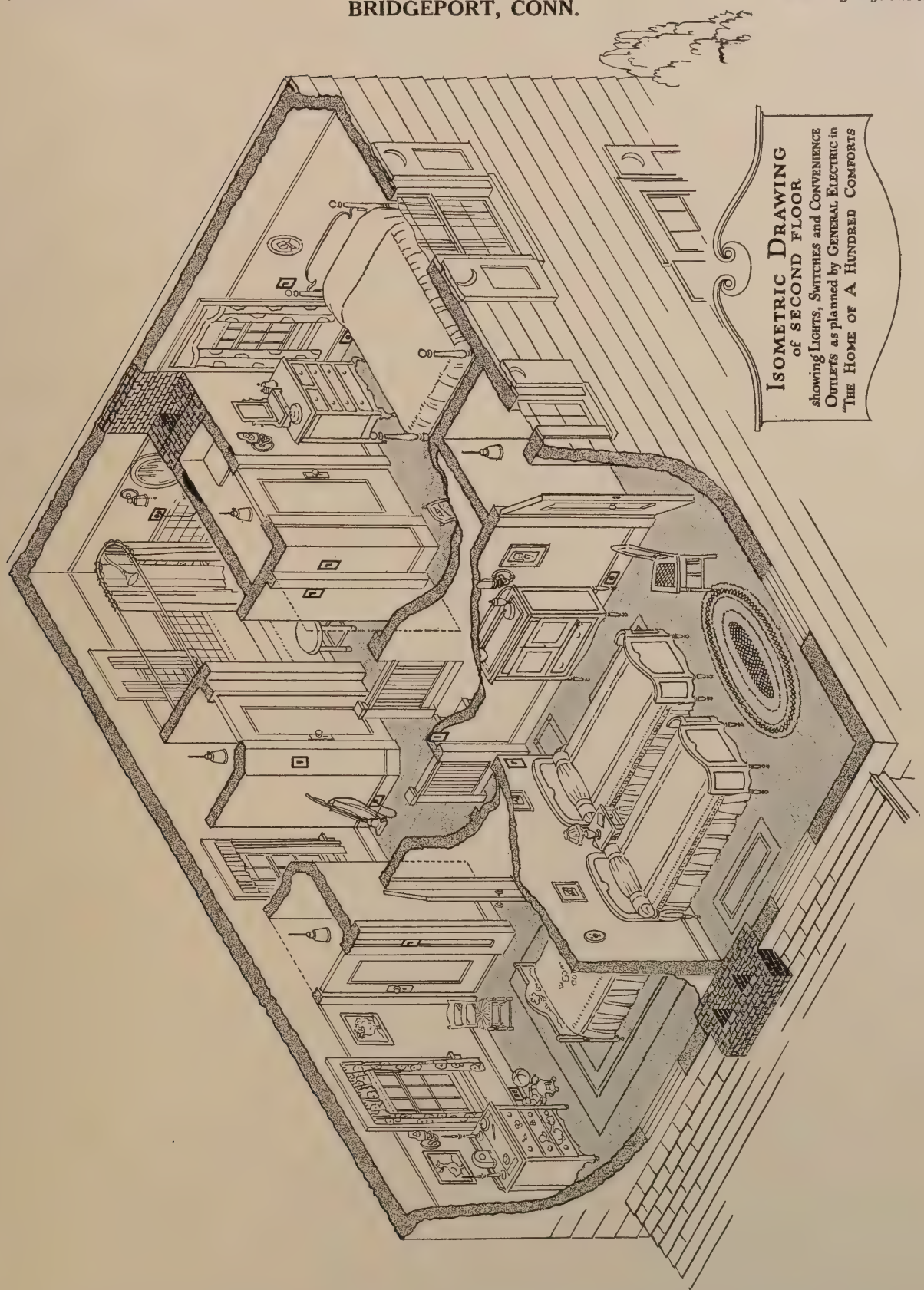
GE WIRING SYSTEM —for lifetime service

GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service



ISOMETRIC DRAWING of SECOND FLOOR showing LIGHTS, SWITCHES and CONVENIENCE OUTLETS as planned by GENERAL ELECTRIC in "THE HOME OF A HUNDRED COMFORTS"

For further details and literature, write to: **GENERAL ELECTRIC COMPANY** Merchandise Division, Bridgeport, Conn.

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

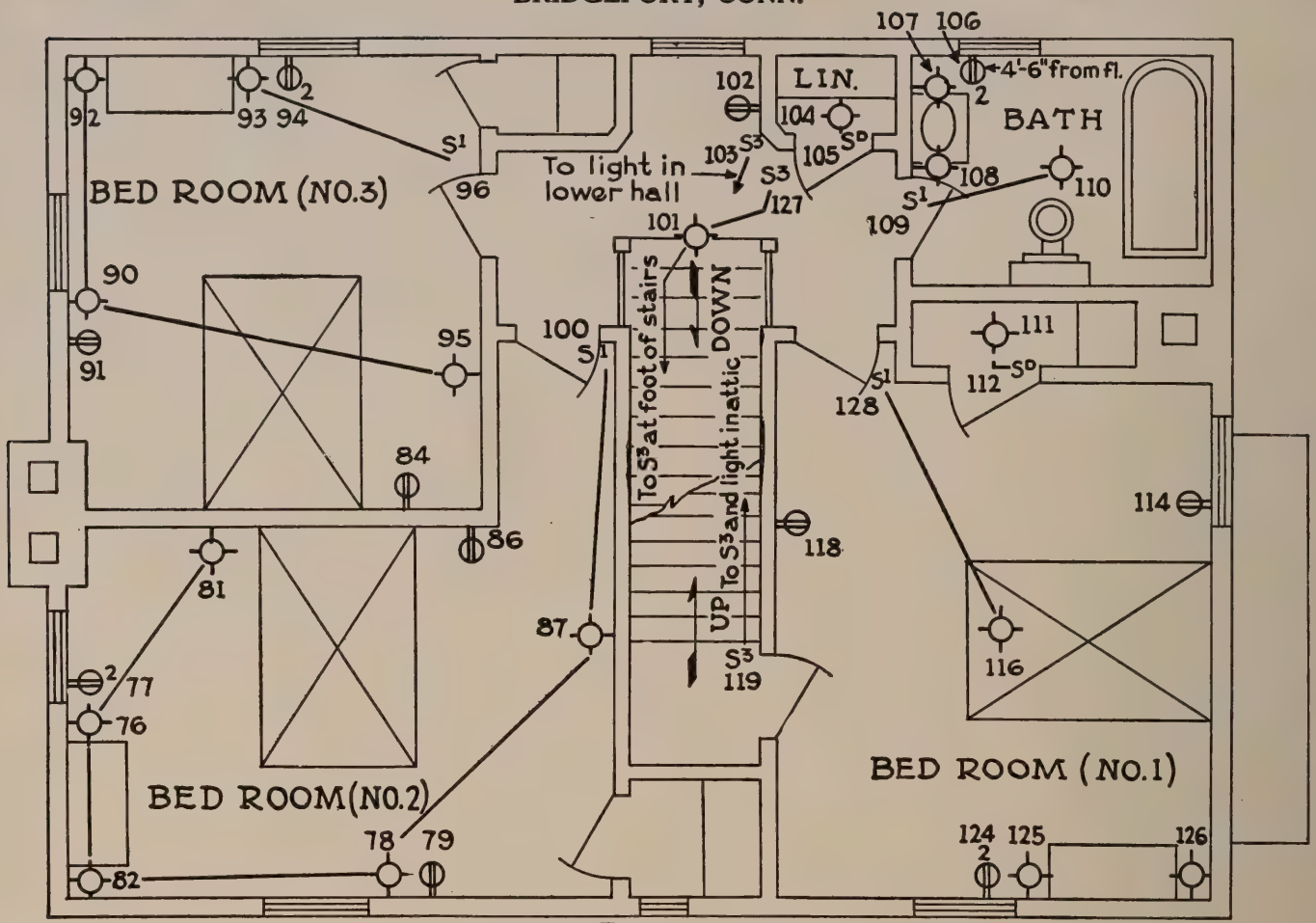
GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service



Second Floor Outlet Diagram

KEY

= Ceiling Outlet

= Ceiling Outlet for Extensions (Elexits)

= Wall Outlets for Extensions (Elexits)

= Single Convenience Outlet

= Double Convenience Outlet

S^1 = Single-pole Tumbler Switch

S^2 = Double-pole Tumbler Switch

S^3 = Three-way Tumbler Switch

S^4 = Four-way Tumbler Switch

S^D = Door Switch

NOTE.—Where Elexits are indicated other types of outlets may be substituted.

Total Outlets—56

Type of Outlet	2nd Floor	Attic
Wall Switch Outlets	10	2
Door Switch Outlets	4	
Wall Light Outlets	17	
Ceiling Light Outlets	9	1
Convenience Outlets	13	

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service

Specifications for

Second Floor

*

Upper Hall

103—3-Way Tumbler Switch GE1690, controls No. 38 Lower Hall Light.

129—4-Way Tumbler Switch GE1691, controls No. 101 Upper Hall Light.

127—3-Way Tumbler Switch GE1690, controls No. 101 Upper Hall Light.

102—Single Convenience Outlet GE658, furnishes power for lamp, fan, vacuum cleaner, etc.

101—Ceiling Elexit LX200. 50-watt lamp is recommended.

Linen Closet

105—Door Switch GE273, controls No. 104 Drop Light.

104—Ceiling Lamp Receptacle GE264, 25-watt lamp is recommended.

Bath Room

109—S-P. Tumbler Switch GE1688, controls No. 110 Ceiling Elexit.

106—Twin Convenience Outlet GE694, furnishes power for immersion heater, glow heater, etc.

107—Wall Elexit LX111. 25-watt (brackets alone 50-watt) lamp is recommended.

108—Wall Elexit LX111. 25-watt (brackets alone 50-watt) lamp is recommended.

110—Ceiling Elexit LX200. 75-watt lamp is recommended.

Bed Room No. 1

128—3-Way Tumbler Switch GE1690, controls No. 116 Ceiling Elexit.

115—3-Way Tumbler Switch GE1690, controls No. 116 Ceiling Elexit.

112—Door Switch GE273, controls No. 111 Closet Drop Light.

118—Single Convenience Outlet GE658
123—Single Convenience Outlet GE658
114—Single Convenience Outlet GE658
} furnishes power for lamps, vacuum cleaner, sewing machine, etc.

124—Twin Convenience Outlet GE694, furnishes power for lamps, toilet accessories, etc.

113—Wall Elexit LX111. 25-watt lamp is recommended.

117—Wall Elexit LX111. 25-watt lamp is recommended.

122—Wall Elexit LX111. 25-watt lamp is recommended.

125—Wall Elexit LX111. 25-watt lamp is recommended.

126—Wall Elexit LX111. 25-watt lamp is recommended.

116—Ceiling Elexit LX200. 100-watt lamp is recommended.

111—Ceiling Lamp Receptacle GE264. 25-watt lamp is recommended.

*

Bed Room No. 2

100—3-Way Tumbler Switch GE1690, controls No. 80 Ceiling Elexit.

85—3-Way Tumbler Switch GE1690, controls No. 80 Ceiling Elexit.

120—Door Switch GE273, controls No. 121 Closet Drop Light.

86—Single Convenience Outlet GE658
88—Single Convenience Outlet GE658
79—Single Convenience Outlet GE658
} furnishes power for lamps, vacuum cleaner, sewing machines, etc.

77—Twin Convenience Outlet GE694, furnishes power for lamps, toilet accessories, etc.

81—Wall Elexit LX111. 25-watt lamp is recommended.

76—Wall Elexit LX111. 25-watt lamp is recommended.

82—Wall Elexit LX111. 25-watt lamp is recommended.

78—Wall Elexit LX111. 25-watt lamp is recommended.

87—Wall Elexit LX111. 25-watt lamp is recommended.

80—Ceiling Elexit LX200. 100-watt lamp is recommended.

121—Ceiling Lamp Receptacle GE264. 25-watt lamp is recommended.

Bed Room No. 3

96—3-Way Tumbler Switch GE1690, controls No. 89 Ceiling Elexit.

83—3-Way Tumbler Switch GE1690, controls No. 89 Ceiling Elexit.

98—Door Switch GE273, controls No. 97 Closet Drop Light.

84—Single Convenience Outlet GE658
91—Single Convenience Outlet GE658
} furnishes power for lamps, electric toys, milk warmer, vacuum cleaner, etc.

94—Twin Convenience Outlet GE694, furnishes power for candlesticks, vibrator, glow heater, etc.

95—Wall Elexit LX111. 25-watt lamp is recommended.

99—Wall Elexit LX111. 25-watt lamp is recommended.

90—Wall Elexit LX111. 25-watt lamp is recommended.

92—Wall Elexit LX111. 25-watt lamp is recommended.

93—Wall Elexit LX111. 25-watt lamp is recommended.

89—Ceiling Elexit LX200. 75-watt lamp is recommended.

97—Ceiling Lamp Receptacle GE264. 25-watt lamp is recommended.

Attic

119—3-Way Tumbler Switch GE1690, controls Center Drop Light.

130—3-Way Tumbler Switch GE1690, controls Center Drop Light.

131—Ceiling Lamp Receptacle GE264. 75-watt lamp is reecommended.

*The numbers in this column identify the outlets shown on floor plan.

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

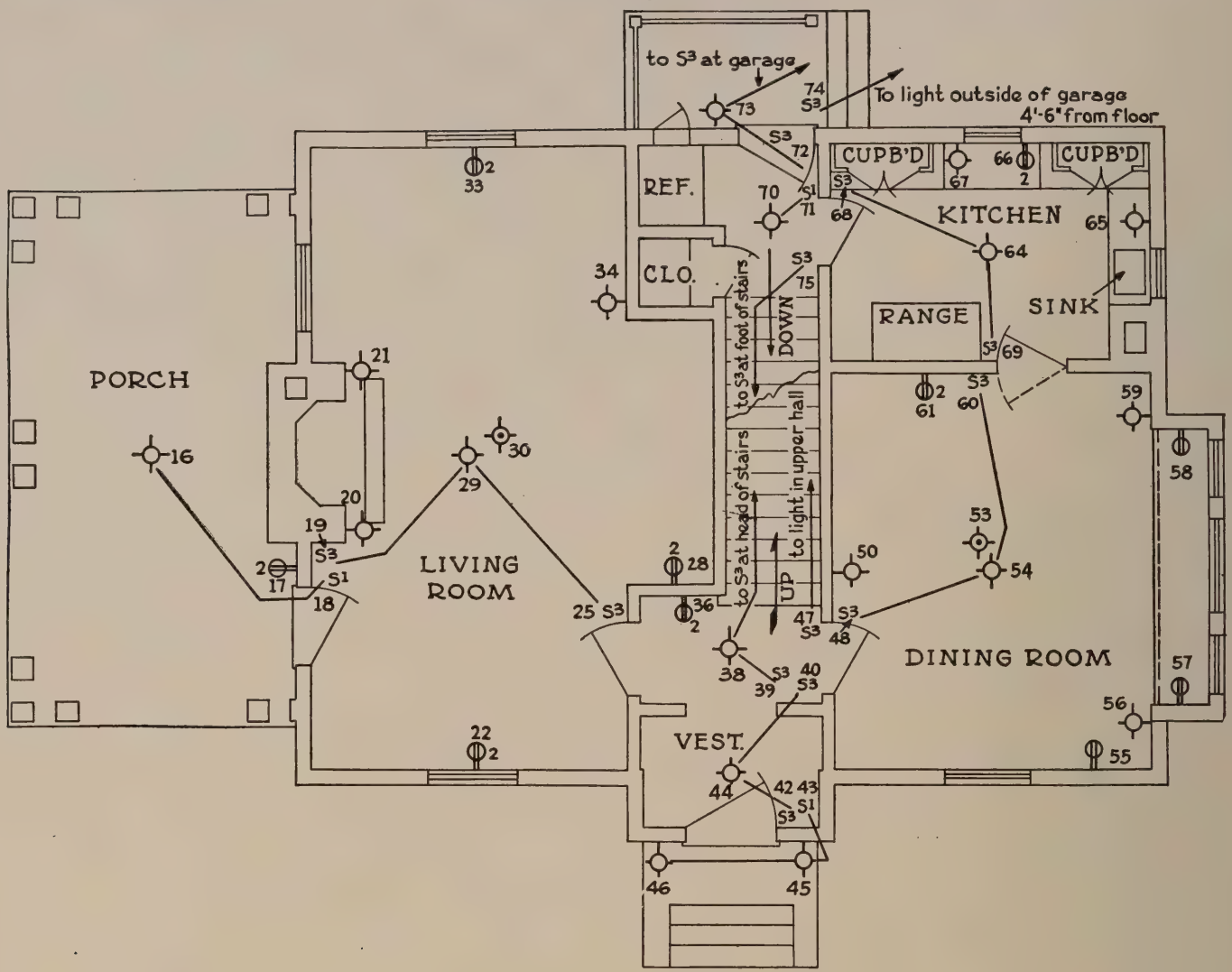
GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service



Alternative Outlet Diagram No. 1—First Floor

Total Outlets—66

Type of Outlet	1st Floor	Cellar	Garage
Wall Switch Outlets	16	6	3
Wall Light Outlets	10		
Ceiling Light Outlets	7	6	2
Convenience Outlets	12	3	1

KEY

= Ceiling Outlet

= Double Convenience Outlet

S^2 = Double-pole Tumbler Switch

= Wall Outlet

= Floor Outlet

S^3 = Three-way Tumbler Switch

= Single Convenience Outlet

S^1 = Single-pole Tumbler Switch

S^4 = Four-way Tumbler Switch

For further details and literature, write to: **GENERAL ELECTRIC COMPANY** Merchandise Division, Bridgeport, Conn.

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service

Specifications for Alternative Diagram No. 1

First Floor

*

Vestibule

42—3-Way Tumbler Switch GE1690, controls No. 44 Ceiling Light.
43—S-P. Tumbler Switch GE1688, controls Nos. 45 and 46 Entrance Lights.
44—Ceiling Lamp Receptacle GE264, 25-watt lamp is recommended.

Hall

39—3-Way Tumbler Switch GE1690, controls No. 38 Ceiling Light.
40—3-Way Tumbler Switch GE1690, controls No. 44 Vestibule Light.
47—3-Way Tumbler Switch GE1690, controls No. 101 Upper Hall Ceiling Light.
36—Twin Convenience Outlet GE694, furnishes power for table lamp, vacuum cleaner, etc.

Living Room

25—3-Way Tumbler Switch GE1690, controls No. 29 Ceiling Light.
19—3-Way Tumbler Switch GE1690, controls No. 29 Ceiling Light.
18—S-P. Tumbler Switch GE1688, controls No. 16 Ceiling Light.

22—Twin Convenience Outlet GE694
33—Twin Convenience Outlet GE694
28—Twin Convenience Outlet GE694
30—Single Convenience Outlet GE658
} furnishes power for portable lamps, electrically operated musical instruments, vacuum cleaners, fans, etc.

20—Wall Fixture Outlet. 25-watt lamp is recommended.
21—Wall Fixture Outlet. 25-watt lamp is recommended.
34—Wall Fixture Outlet. 50-watt lamp is recommended.
29—Ceiling Lamp Receptacle GE264. 200-watt lamp is recommended.

Sun Porch

17—Twin Convenience Outlet GE694, furnishes power for portable lamps, fan, cooking appliances, vacuum cleaner, etc.
16—Ceiling Lamp Receptacle GE264. 75-watt lamp is recommended.

Dining Room

48—3-Way Tumbler Switch GE1690, controls No. 54 Ceiling Light.
60—3-Way Tumbler Switch GE1690, controls No. 54 Ceiling Light.

55—Single Convenience Outlet GE658
57—Single Convenience Outlet GE658
58—Single Convenience Outlet GE658
61—Twin Convenience Outlet GE694
53—Single Convenience Outlet GE658
} furnishes power for cooking appliances, electric candlesticks, glow heater, fan, vacuum cleaner, etc.

50—Wall Fixture Outlet. 30-watt lamp is recommended.
56—Wall Fixture Outlet. 30-watt lamp is recommended.
59—Wall Fixture Outlet. 30-watt lamp is recommended.
54—Ceiling Lamp Receptacle GE264. 100-watt lamp is recommended.

Kitchen

69—3-Way Tumbler Switch GE1690, controls No. 64 Ceiling Light.
68—3-Way Tumbler Switch GE1690, controls No. 64 Ceiling Light.

*

66—Twin Convenience Outlet GE694, furnishes power for fan, utility motor, beaters, iron, etc.
65—Wall Fixture Outlet. 25-watt lamp is recommended.
67—Wall Fixture Outlet. 25-watt lamp is recommended.
64—Ceiling Lamp Receptacle GE264. 100-watt lamp is recommended.

Back Hall and Porch

75—3-Way Tumbler Switch GE1690, controls No. 12 Main Cellar Light.
71—S-P. Tumbler Switch GE1688, controls No. 70 Hall Center Light.
72—3-Way Tumbler Switch GE1690, controls No. 73 Back Porch Light.
74—3-Way Tumbler Switch GE1690, controls No. 132 Light Outside Garage.
70—Ceiling Fixture Outlet GE264. 25-watt lamp is recommended.
73—Wall Fixture Outlet. 25-watt lamp is recommended.

Cellar

11—3-Way Tumbler Switch GE1690, controls No. 12 Main Cellar Light.
1—S-P. Surface Tumbler Switch GE970, controls No. 2 Heater Room Light.
5—S-P. Surface Tumbler Switch GE970, controls No. 4 Fuel Room Light.
7—S-P. Surface Tumbler Switch GE970, controls No. 6 Storage Room Light.
8—S-P. Surface Tumbler Switch GE970, controls No. 9 Laundry Light.
14—S-P. Surface Tumbler Switch GE970, controls No. 15 Vegetable Room Light.
3—Single Convenience Outlet GE658, furnishes power for trouble light, fan, etc.

10—Twin Convenience Outlet GE694
13—Twin Convenience Outlet GE694
} furnishes power for electric tools, washing machine, ironer, etc.

2—Ceiling Lamp Receptacle GE088. 25-watt lamp is recommended.
4—Ceiling Lamp Receptacle GE088. 25-watt lamp is recommended.
6—Ceiling Lamp Receptacle GE088. 25-watt lamp is recommended.
9—Ceiling Lamp Receptacle GE088. 75-watt lamp is recommended.
12—Ceiling Lamp Receptacle GE088. 75-watt lamp is recommended.
15—Ceiling Lamp Receptacle GE088. 25-watt lamp is recommended.

Garage

132—3-Way Tumbler Switch GE1690, controls No. 132 Light Outside Garage.
133—3-Way Tumbler Switch GE1690, controls No. 73 Back Porch Light.
134—S-P. Switch GE1688, controls No. 137 Center Light.
135—Twin Convenience Outlet GE694, furnishes power for Tungar battery chargers, electric tools and appliances.
137—Ceiling Lamp Receptacle GE088. 75-watt lamp is recommended.
138—Ceiling Lamp Receptacle GE088. 75-watt lamp is recommended.

*The numbers in this column identify the outlets shown on floor plan.

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

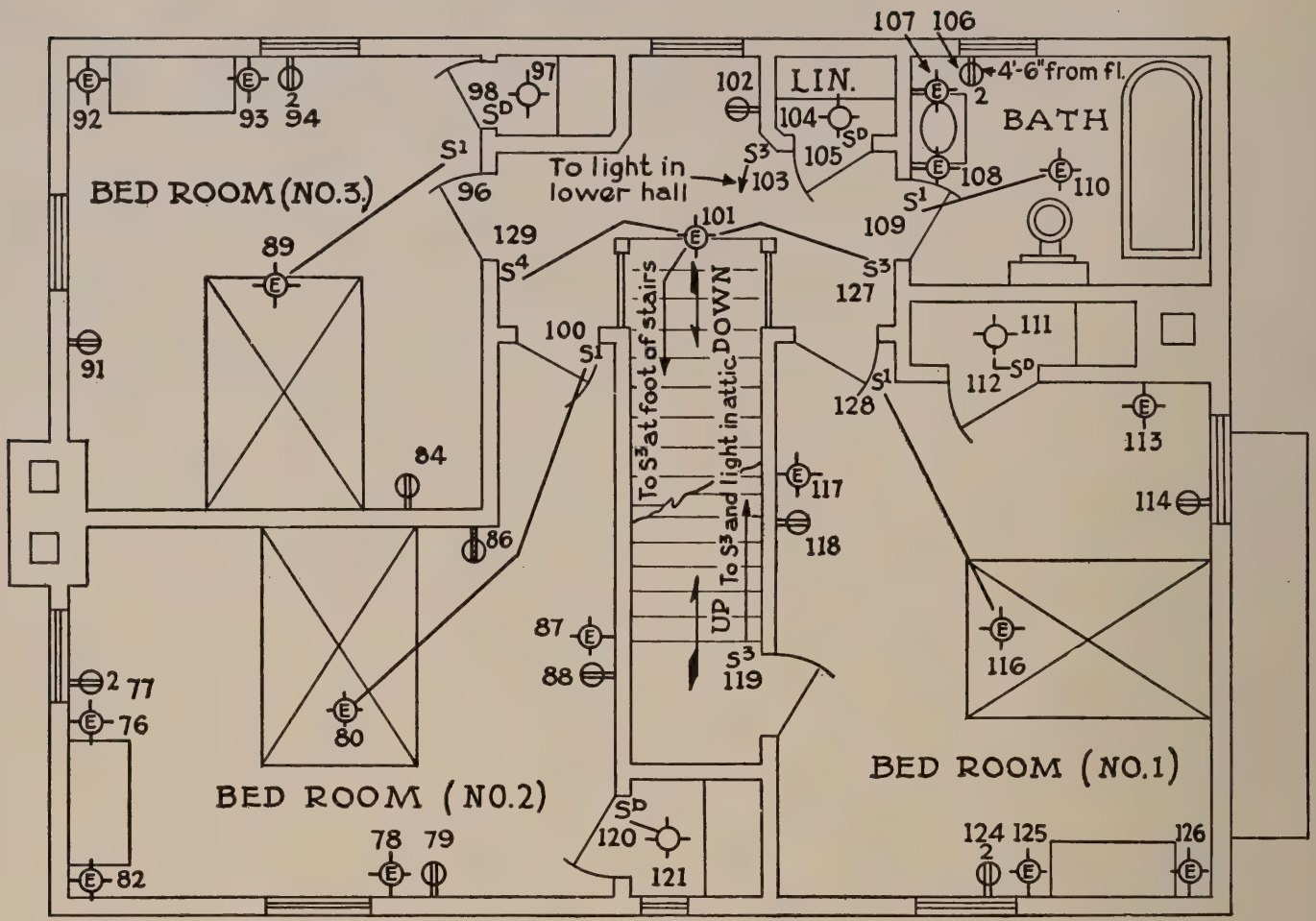
GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service



Alternative Outlet Diagram No. 1

Second Floor

Total Outlets—40

Type of Outlet	2nd Floor	Attic
Wall Switch Outlets	6	2
Door Switch Outlets	2	
Wall Light Outlets	13	
Ceiling Light Outlets	5	1
Convenience Outlets	11	

Key

- = Ceiling Outlet
- = Wall Outlet
- = Single Convenience Outlet
- = Double Convenience Outlet
- S¹ = Single-pole Tumbler Switch
- S² = Double-pole Tumbler Switch
- S³ = Three-way Tumbler Switch
- S⁴ = Four-way Tumbler Switch
- Sᴰ = Door Switch

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service

Specifications for Alternative Diagram No. 1

Second Floor

*

Upper Hall

103—3-Way Tumbler Switch GE1690, controls No. 38 Lower Hall Light.

127—3-Way Tumbler Switch GE1690, controls No. 101 Upper Hall Light.

102—Single Convenience Outlet GE658, furnishes power for lamp, fan, vacuum cleaner, etc.

101—Ceiling Lamp Receptacle GE264. 50-watt lamp is recommended.

Linen Closet

105—Door Switch GE273, controls No. 104 Drop Light.

104—Ceiling Lamp Receptacle GE264. 25-watt lamp is recommended.

Bath Room

109—S-P. Tumbler Switch GE1688, controls No. 110 Ceiling Light.

106—Twin Convenience Outlet GE694, furnishes power for immersion heater, glow heater, etc.

107—Wall Fixture Outlet. 25-watt lamp is recommended.

108—Wall Fixture Outlet. 25-watt lamp is recommended.

110—Ceiling Lamp Receptacle GE264. 75-watt lamp is recommended.

Bed Room No. 1

128—S-P. Tumbler Switch GE1688, controls No. 116 Ceiling Light.

112—Door Switch GE273, controls No. 111 Closet Drop Light.

118—Single Convenience Outlet GE658
114—Single Convenience Outlet GE658
} furnishes power for lamps, vacuum cleaner, sewing machine, etc.

124—Twin Convenience Outlet GE694, furnishes power for lamps, toilet accessories, etc.

125—Wall Fixture Outlet. 25-watt lamp is recommended.

126—Wall Fixture Outlet. 25-watt lamp is recommended.

*

116—Ceiling Lamp Receptacle GE264. 100-watt lamp is recommended.

111—Ceiling Lamp Receptacle GE264. 25-watt lamp is recommended.

Bed Room No. 2

100—S-P. Tumbler Switch GE1688, controls Nos. 87, 78, 82, 76 and 81 Wall Lights.

86—Single Convenience Outlet GE658, furnishes power for lamps, vacuum cleaner, sewing machine, etc.

79—Single Convenience Outlet GE658
77—Twin Convenience Outlet GE694
} furnishes power for lamps, toilet accessories, etc.

81—Wall Fixture Outlet. 25-watt lamp is recommended.

76—Wall Fixture Outlet. 25-watt lamp is recommended.

82—Wall Fixture Outlet. 25-watt lamp is recommended.

78—Wall Fixture Outlet. 25-watt lamp is recommended.

87—Wall Fixture Outlet. 25-watt lamp is recommended.

Bed Room No. 3

96—S-P. Tumbler Switch GE1688, controls Nos. 93, 92, 90, 95 Wall Lights.

84—Single Convenience Outlet GE658
91—Single Convenience Outlet GE658
} furnishes power for lamps, electric toys, milk warmer, vacuum cleaner, etc.

94—Twin Convenience Outlet GE694, furnishes power for candlesticks, vibrator, glow heater, etc.

95—Wall Fixture Outlet. 25-watt lamp is recommended.

90—Wall Fixture Outlet. 25-watt lamp is recommended.

92—Wall Fixture Outlet. 25-watt lamp is recommended.

93—Wall Fixture Outlet. 25-watt lamp is recommended.

Attic

119—3-Way Tumbler Switch GE1690
130—3-Way Tumbler Switch GE1690
} controls Center Drop Light.

131—Ceiling Lamp Receptacle GE264. 75-watt lamp is recommended.

*The numbers in this column identify the outlets shown on floor plan.

GE WIRING SYSTEM —for lifetime service

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

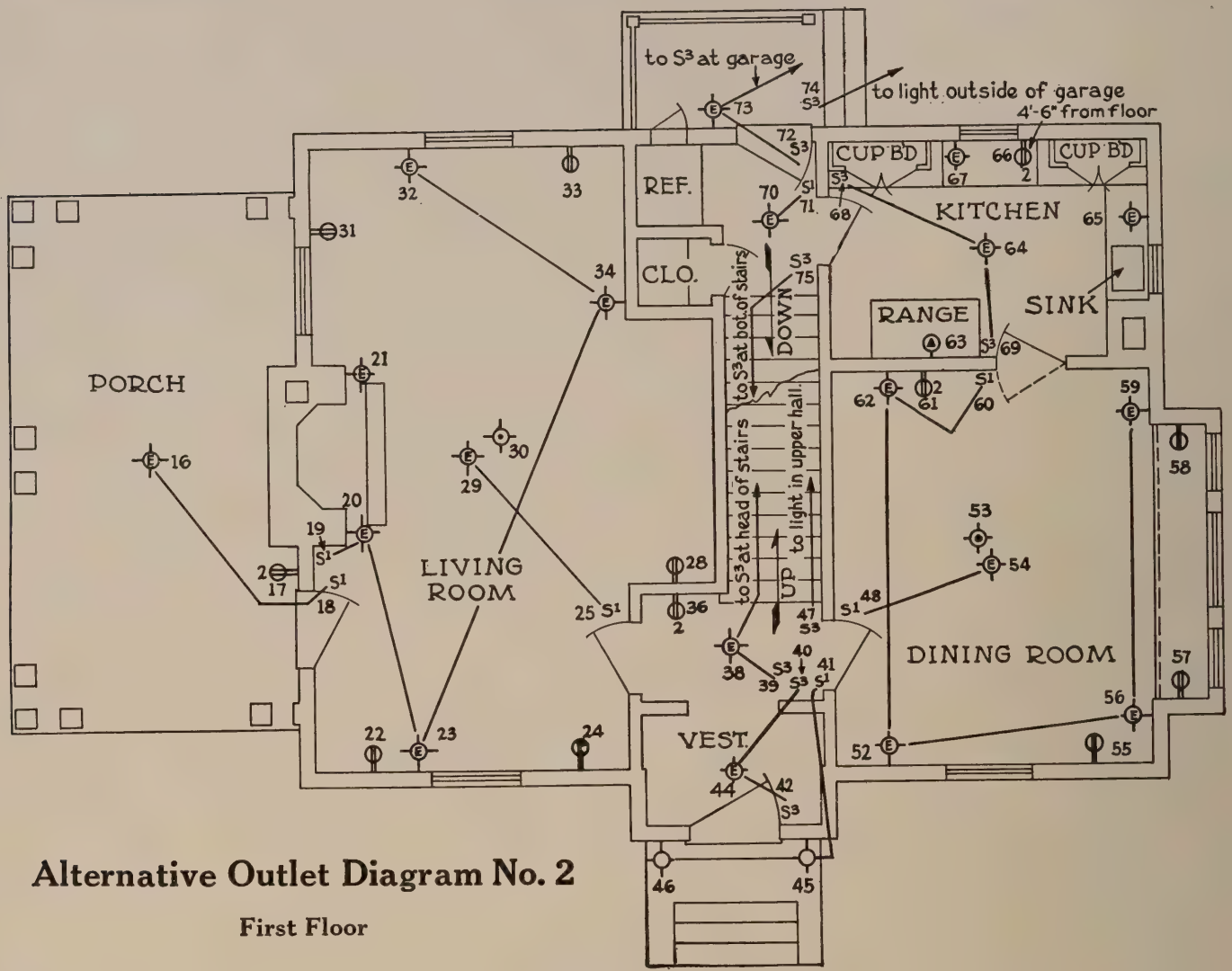
GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service



Alternative Outlet Diagram No. 2

First Floor

Total Outlets—74

Type of Outlet	1st Floor	Cellar	Garage
Wall Switch Outlets	16	6	3
Wall Light Outlets	13		
Ceiling Light Outlets	8	6	2
Convenience Outlets	14	3	2
Range Outlet	1		

KEY

= Ceiling Outlet for Extensions (Elexits)

= Wall Outlet

= Wall Outlets for Extensions (Elexits)

= Single Convenience Outlet

= Double Convenience Outlet

= Floor Outlet

= Range Outlet

= Single-pole Tumbler Switch

= Double-pole Tumbler Switch

= Three-way Tumbler Switch

= Four-way Tumbler Switch

Note.—Where Elexits are indicated other types of outlets may be substituted.

For further details and literature, write to: GENERAL ELECTRIC COMPANY Merchandise Division, Bridgeport, Conn.

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service

Specifications for Alternative Diagram No. 2

First Floor

*

Vestibule

42—3-Way Tumbler Switch GE1690, controls No. 44 Ceiling Elexit.
44—Ceiling Elexit LX200. 25-watt lamp is recommended.

Hall

39—3-Way Tumbler Switch GE1690, controls No. 38 Ceiling Elexit.
40—3-Way Tumbler Switch GE1690, controls No. 44 Vestibule Elexit.
41—S-P. Tumbler Switch GE1688, controls Nos. 45 and 46 Entrance Lights.
47—3-Way Tumbler Switch GE1690, controls No. 101 Upper Hall Ceiling Elexit.
36—Twin Convenience Outlet GE694, furnishes power for table lamps, vacuum cleaner, etc.
38—Ceiling Elexit LX200. 50-watt lamp is recommended.

Living Room

25—S-P. Tumbler Switch GE1688, controls No. 29 Ceiling Elexit.
19—S-P. Tumbler Switch GE1688, controls Nos. 21, 20, 23, 34 and 32 Wall Elexits.
18—S-P. Tumbler Switch GE1688, controls No. 16 Ceiling Elexit.
24—Single Convenience Outlet GE658
22—Single Convenience Outlet GE658
31—Single Convenience Outlet GE658
33—Single Convenience Outlet GE658
30—Single Convenience Outlet GE658
28—Single Convenience Outlet GE658
} furnishes power for portable lamps, electrically operated musical instruments, vacuum cleaner, fans, etc.
20—Wall Elexit LX111. 25-watt lamp is recommended.
21—Wall Elexit LXIII. 25-watt lamp is recommended.
23—Wall Elexit LX111. 30-watt lamp is recommended.
32—Wall Elexit LX111. 30-watt lamp is recommended.
34—Wall Elexit LX111. 30-watt lamp is recommended.
29—Ceiling Elexit LX200. 150-watt lamp is recommended.

Sun Porch

17—Twin Convenience Outlet GE694, furnishes power for portable lamps, fan, cooking appliances, vacuum cleaner, etc.
16—Ceiling Elexit LX200. 75-watt lamp is recommended.

Dining Room

48—S-P. Tumbler Switch GE1688, controls No. 54 Ceiling Elexit.
60—S-P. Tumbler Switch GE1688, controls Nos. 62, 52, 56, and 59 Wall Elexits.
55—Single Convenience Outlet GE658
57—Single Convenience Outlet GE658
58—Single Convenience Outlet GE658
53—Single Convenience Outlet GE658
61—Twin Convenience Outlet GE694
} furnishes power for cooking appliances, electric candlesticks, glow heaters, fan, vacuum cleaners, etc.
52—Wall Elexit LX111. 30-watt lamp is recommended.
56—Wall Elexit LX111. 30-watt lamp is recommended.
59—Wall Elexit LX111. 30-watt lamp is recommended.
62—Wall Elexit LX111. 30-watt lamp is recommended.
54—Ceiling Elexit LX200. 150-watt lamp is recommended.

Kitchen

69—3-Way Tumbler Switch GE1690, controls No. 64 Ceiling Elexit.
68—3-Way Tumbler Switch GE1690, controls No. 64 Ceiling Elexit.

*

66—Twin Convenience Outlet GE694, furnishes power for fan, utility motor, beaters, iron, etc.
63—Special Convenience Outlet GE694, furnishes power for electric range.
65—Wall Elexit LXIII. 40-watt lamp is recommended.
67—Wall Elexit LX111. 40-watt lamp is recommended.
64—Ceiling Elexit LX200. 75-watt lamp is recommended.

Back Hall and Porch

75—3-Way Tumbler Switch GE1690, controls No. 12 Main Cellar Light.
71—S-P. Tumbler Switch GE1688, controls No. 70 Hall Center Elexit.
72—3-Way Tumbler Switch GE1690, controls No. 73 Back Porch Light.
74—3-Way Tumbler Switch GE1690, controls No. 132 Light Outside Garage.
70—Ceiling Elexit LX200. 25-watt lamp is recommended.
73—Wall Elexit LX111. 25-watt lamp is recommended.

Cellar

11—3-Way Tumbler Switch GE1690, controls No. 12 Main Cellar Light.
1—S-P Surface Tumbler Switch GE920, controls No. 2 Heater Room Light.
5—S-P. Surface Tumbler Switch GE920, controls No. 4 Fuel Room Light.
7—S-P. Surface Tumbler Switch GE920, controls No. 6 Storage Room Light.
8—S-P. Surface Tumbler Switch GE920, controls No. 9 Laundry Room Light.
14—S-P. Surface Tumbler Switch GE920, controls No. 15 Vegetable Room Light.
3—Single Convenience Outlet GE658, furnishes power for trouble light, fan, etc.
10—Twin Convenience Outlet GE694
13—Twin Convenience Outlet GE694
} furnishes power for electric tools, washing machine, ironer, etc.
2—Ceiling Lamp Receptacle GE088. 25-watt lamp is recommended.
4—Ceiling Lamp Receptacle GE088. 25-watt lamp is recommended.
6—Ceiling Lamp Receptacle GE088. 25-watt lamp is recommended.
9—Ceiling Lamp Receptacle GE088. 75-watt lamp is recommended.
12—Ceiling Lamp Receptacle GE088. 75-watt lamp is recommended.
15—Ceiling Lamp Receptacle GE088. 25-watt lamp is recommended.

Garage

132—3-Way Tumbler Switch GE1690, controls No. 132 Light Outside Garage.
133—3-Way Tumbler Switch GE1690, controls No. 73 Back Porch Light.
134—S-P. Tumbler Switch GE1688, controls No. 137 Center Light.
135—Twin Convenience Outlet GE694
136—Twin Convenience Outlet GE694
} furnishes power for Tungar battery chargers, electric tools and appliances.
137—Ceiling Lamp Receptacle GE088. 75-watt lamp is recommended.
138—Ceiling Lamp Receptacle GE088. 75-watt lamp is recommended.

*The numbers in this column identify the outlets shown on floor plan.

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

GENERAL ELECTRIC COMPANY

Merchandise Division

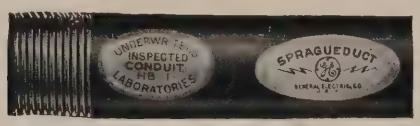
BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service

The G-E Wiring System is designed for the type of home covered by the floor plans in this book. Illustrations of the materials comprising the G-E Wiring System (Group 1—1926) are as follows:

ENTRANCE



(½ actual size)
¾-in. Sprague duct
Rigid Conduit
with suitable Weatherdrip Fittings
Black Enamel Finish
(From lighting companies' lines to panelboard)



(Actual size)
No. 10 Code Wire
(From lighting companies' lines to panelboard)



(Actual size)
No. 8 Code Wire
with Suitable Clamps, etc.
(For all grounding)

METER SERVICE SWITCH



(¼ actual size)
Cat. No. GE2351
Safety Meter Service Switch
Complete with Fuses
(For two-wire service Cat. No. GE2354 is used)

Note.—In Communities where the local lighting company has standardized on a meter service switch of a type other than that illustrated above, the contractor will substitute an approved switch.

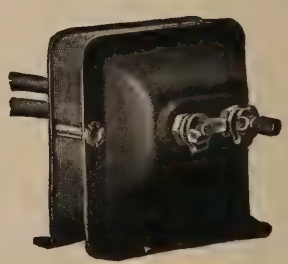
PANELBOARD

The location of the panelboard on the main floor is recommended.



(¼ actual size)
Cat. No. GE2363
Safety Panelboard
Complete with Fuses
(For two-wire service Cat. No. GE2368 is used)

BELL RINGER



(½ actual size)
Cat. No. 179541
Bell-ringing Transformer
(Operated from a separate circuit on the panelboard)

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service

The G-E Wiring System is designed for the type of home covered by the floor plans in this book. Illustrations of the materials comprising the G-E Wiring System (Group 1—1926) are as follows:

BRANCH CONDUCTORS



(½ actual size)

Cat. No. 14BXSS
"BX" Armored Conductors
Galvanized Finish—Two Conductors



(½ actual size)

Cat. No. 14BX3SS
"BX" Armored Conductors, Galvanized Finish
Three Conductors (For three-way switches)



(Actual size)

No. 18 Code Wire
(For bell wiring)



(Actual size)

No. 14 Code Wire
(For overhead wiring to detached garage)

Where economy is the prime requirement and where local conditions permit, No. 14 Code Wire with suitable knobs, tubes and cleats may be used for branch conductors in what is commonly known as knob and tube work.

This method of wiring may be used only in wood frame construction. Since armored conductors are vermin-proof and minimize the fire hazard which may result from short circuits, overheated wires, etc., an armored conductor installation is always preferable to a knob and tube installation.

SWITCH AND OUTLET BOXES

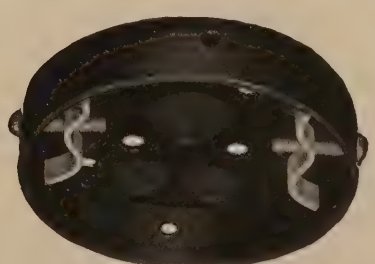
A minimum of one lighting outlet to every fifty square feet of floor space is recommended.



(½ actual size)
Cat. No. SP6972
Sectional Switch Box, Black Enamel Finish
(For switches and convenience outlets)



(½ actual size)
Cat. No. SP24151
3¼-in. Octagon Outlet Box
with Fixture Stud, Black Enamel Finish
(For wall light outlets)



(½ actual size)
Cat. No. SP26626
Ceiling Outlet Box with Fixture Stud
Black Enamel Finish
(For ceiling light outlets)

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

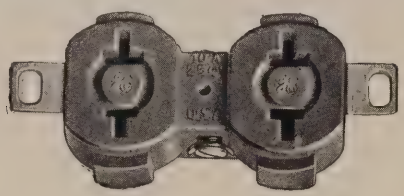
GE WIRING SYSTEM —*for lifetime service*

GE WIRING SYSTEM —*for lifetime service*

The G-E Wiring System is designed for the type of home covered by the floor plans in this book. Illustrations of the materials comprising the G-E Wiring System (Group 1—1926) are as follows:

CONVENIENCE OUTLETS

A minimum of one twin convenience outlet to every fifty square feet of floor space is recommended.



(½ actual size)

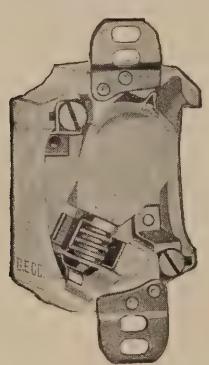
Cat. No. GE2258
Twin Convenience Outlet
(For baseboard mounting)



(½ actual size)

Cat. No. GE2257
Single Convenience Outlet
(For combination mounting)

PILOT LAMP RECEPTACLE

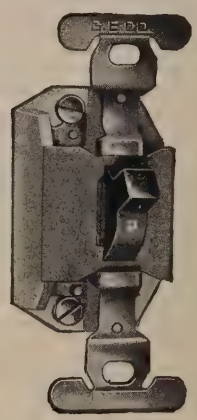


(½ actual size)

Cat. No. GE853
Pilot Lamp Receptacle

FLUSH SWITCHES

Switch control at every doorway is recommended with switches located on the knob side of doorway.



(½ actual size)
Cat. No. GE1688
Single-Pole Tumbler Switch
Porcelain Box



(½ actual size)

Cat. No. GE1690

Three-way Tumbler Switch
Porcelain Box

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

GENERAL ELECTRIC COMPANY

Merchandise Division

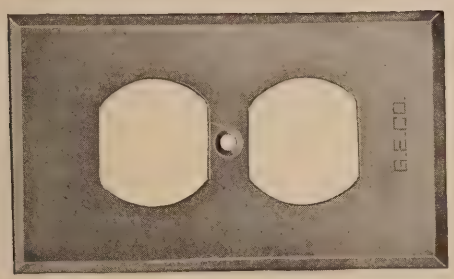
BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service

The G-E Wiring System is designed for the type of home covered by the floor plans in this book. Illustrations of the materials comprising the G-E Wiring System (Group 1—1926) are as follows:

CONVENIENCE OUTLET PLATE



(½ actual size) Cat. No. GE695
Twin Convenience Outlet Plate
0.040-in. Metal

FLUSH SWITCH PLATES



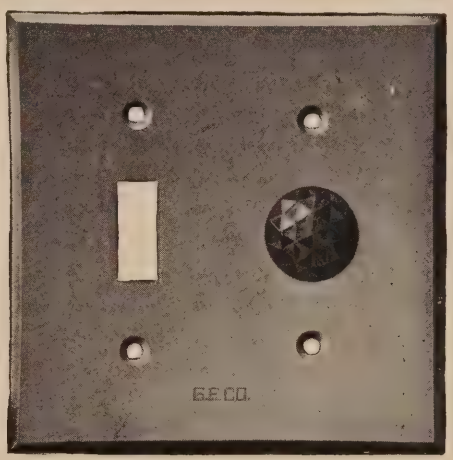
(½ actual size) Cat. No. GE1701
Single Flush Switch Plate
0.040-in. Metal



(½ actual size) Cat. No. GE1702
Two-gang Flush Switch Plate
0.040-in. Metal

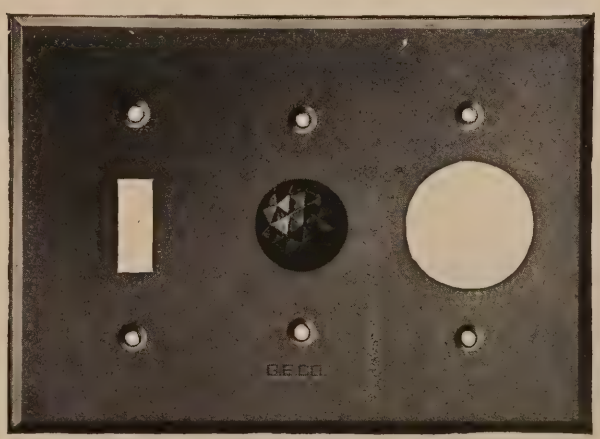
COMBINATION PLATES

The combination of switch and pilot lamp receptacle is recommended for the control of all remotely located lights (garage, cellar and attic lights principally).



(½ actual size)
Cat. No. GE2069
Combination Plate
for Switch and Pilot
Lamp Receptacle
0.040-in. Metal

The combination of switch, pilot lamp and convenience outlet is recommended for the connection and control of heating appliances (for the kitchen principally).



(½ actual size)
Cat. No. GE2151
Combination Plate for Switch,
Pilot Lamp Receptacle and Single
Convenience Outlet
0.040-in. Metal

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —for lifetime service

GE WIRING SYSTEM —for lifetime service

The G-E Wiring System is designed for the type of home covered by the floor plans in this book. Illustrations of the materials comprising the G-E Wiring System (Group 1—1926) are as follows:

CEILING LAMP RECEPTACLES



(½ actual size)
Cat. No. GE721
Pull Socket Receptacle
(For closets, pantry, etc.)



(½ actual size)
Cat. No. GE1245
Porcelain Pull Socket Receptacle
(For independently controlled ceiling lights in cellar, garage, etc.)



(½ actual size)
Cat. No. GE088
Porcelain Keyless Socket Receptacle
(For switch controlled ceiling lights in cellar, attic, garage, etc.)

LIGHTING EQUIPMENT

An allowance of approximately 2 per cent of the cost of the house is recommended to cover the lighting equipment. The use of lighting fixtures equipped with G-E sockets is recommended.

OUTLET LOCATIONS

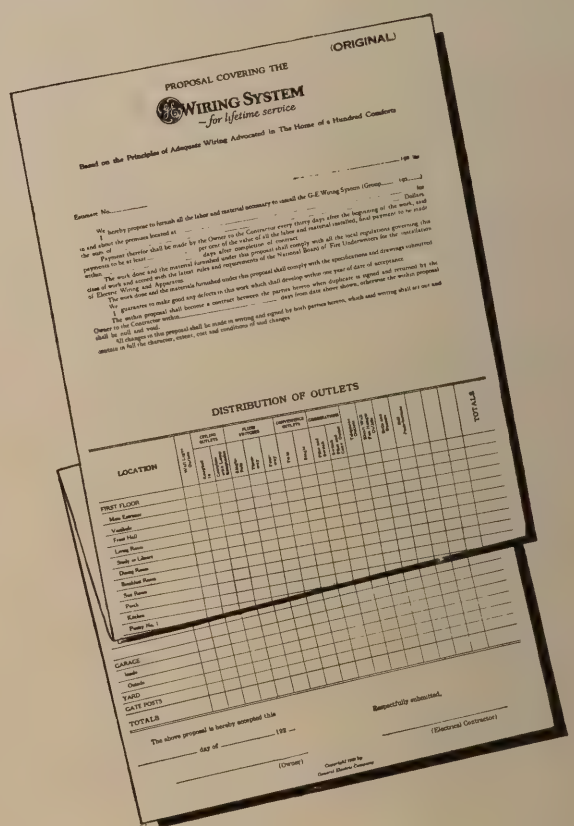
Outlets shall be located as follows:

Wall light outlets: 5 feet 6 inches above finished floor to center of outlet.

Wall switches: 4 feet above finished floor to center of outlet.

Convenience outlets in kitchen, laundry, basement and garage, and in combinations: 4 feet above finished floor to center of outlet.

Convenience outlets in all other locations: In baseboard, mounted horizontally.


(ORIGINAL)

PROPOSAL COVERING THE

GE WIRING SYSTEM —for lifetime service

Based on the Principles of Adequate Wiring Advocated in The Home of a Hundred Comforts

DISTRIBUTION OF OUTLETS

LOCATION

FIRST FLOOR

GARAGE

YARD

GATE POSTS

TOTALS

Respectfully submitted,

(Electrical Contractor)

General Electric Wiring System

Consisting Entirely of Wiring Materials Manufactured by

GENERAL ELECTRIC COMPANY

Merchandise Division

BRIDGEPORT, CONN.

GE WIRING SYSTEM —*for lifetime service*

GE WIRING SYSTEM —*for lifetime service*

Standard Symbols for *The* GE WIRING SYSTEM —*for lifetime service*

- Junction Box
- Meter
- Transformer
- Lighting Panel (Panelboard)
- Wall Bracket
- Ceiling Outlet
- Telephone Outlet
- Ceiling Lamp Receptacle
- Convenience Outlet
- Single Convenience Outlet
- Floor Outlet
- Special Purpose Outlet
- Elexit Wall Fan Outlet
- Local Switch—Single-pole
- Local Switch—Three-way
- Local Switch—Four-way
- Switch and Pilot
- Switch, Pilot and Convenience Outlet
- Bell
- Buzzer
- Push Button
- Pull Box
- The Guarantee of Excellence on Goods Electrical



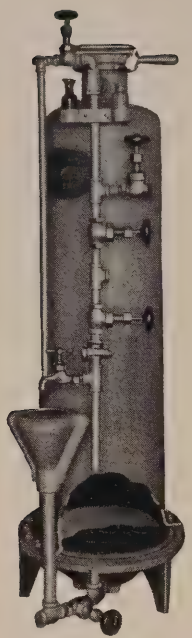
For further details and literature, write to: **GENERAL ELECTRIC COMPANY** Merchandise Division, Bridgeport, Conn.

Crane-Warlo Water Softeners, Water Systems, Deep and Shallow Well Pumps

CRANE CO. General Offices: Crane Bldg., 836 So. Michigan Ave., Chicago

FOR LIST OF BRANCHES AND SALES OFFICES SEE PAGE 338

For Other Products See Pages as Follows. Bathroom Fixtures 338-39; Water Heaters 417



Sectional View of Crane-Warlo Water Softener.

Crane-Warlo Water Softeners:

Crane-Warlo Water Softeners have many structural and operating features which enable them to soften water the easiest, surest and cheapest way.

Special Filter Screen: Replacing the bulky layer of sand and gravel used in other water softeners, the Crane-Warlo uses a special woven filter screen on which a patent has been applied for. This is of rust-proof Monel Metal, so finely woven that in the Size C-2 Softener there are approximately 12,000,000 tiny holes for water to pass through. This filter screen not only distributes the water but also eliminates all foreign particles. Because of its high filtering capacity it will soften muddy or cloudy water which would soon clog other softeners. When the flow of water is reversed in order to renew the water-softening mineral, all dirt is washed away.

Only 1/37 of an inch thick, this filter screen saves hundreds of cubic inches of space, and this allows more room for the softening material. It gives the Crane-Warlo greater softening capacity, size for size, than other softeners.

Upward Flow of Water: Crane-Warlo softening capacity is increased from 7% to 11% by the upward flow, which keeps every grain of mineral in suspension with all of its sides exposed to the water.

Chemical Mineral: Instead of the "natural clay" or "greensand" used in some softeners, the Crane-Warlo employs Silox, a manufactured mineral which is the most perfect water softening agent known. Silox has a softening capacity four times greater, for instance, than "greensand." Requiring fewer renewals, it saves the owner time, bother and salt consumed in each renewal. Silox will not disintegrate. Iron does not harm it.

Improved Salt Cap: The special gasket of the Crane-Warlo salt cap lasts for years without leakage. The jack screw operating principle of the salt cap positively prevents jamming.

Glass Lined Tank: The Crane-Warlo is the only water softener supplied with a glass lined tank. Fused to the inner side of the tank, the glass forms a permanent protection against rust or corrosion. On renewals, it withstands the action of the salt wash which soon eats away even the heaviest galvanized coating.

Measure and Funnel: Crane-Warlo renewals are made easy and effective. A copper salt receiver measures the exact amount of salt needed. A timing funnel measures the proper flow of water regardless of what the city pressure may be.

Construction: Simple and sturdy construction in every part distinguishes the Crane-Warlo water softener. Only Crane valves and fittings are used. All materials are of highest grade. The handsome blue tank is bolted to a heavy cast iron base. It is the only softener which if necessary, could be taken apart and re-assembled without damage.

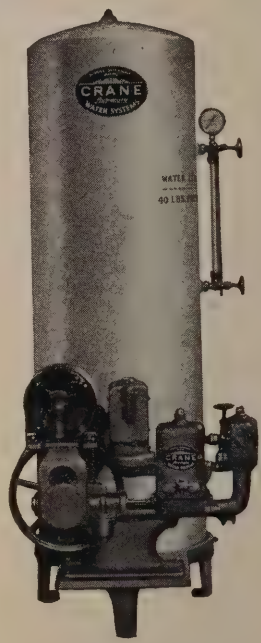
Crane-Warlo Deep Well and Shallow Well Water Systems:

For suburbs and country homes, farms, etc., Crane-Warlo Water Systems meet every requirement. Capacities from 200 to 6,000 gallons an hour for deep or shallow wells. Electric or gasoline power.

Quality Materials: Crank Shafts have double-bearings of highest quality carbon steel, forged and specially heat-treated. Every bronze part is forged, not merely cast.

Perfected Design: Simple. No delicate or complicated parts to get out of order. Flood lubrication saves wear. Even in a dimly lighted basement, the patented visible oil guage tells when more oil is needed. The special device which prevents the oil from mixing with the water has no packing to wear, leak and need replacing.

Completely Accessible: In no other pump, are parts so easy to get at. For example, the suction valve can be reached by merely removing one nut.



No. 215-A Shallow Well pump, 42-gallon tank, 1/6 h. p. electric motor, complete F. O. B. factory $120.00.

Parts Interchangeable: Bearings are machined to .0005 of an inch. So exact is the precision that parts are interchangeable without fitting.

Thoroughly Tested: Every Crane-Warlo system is tested for five hours at the factory under full working load. It must prove its ability to pump its full capacity with standard current consumption before it is shipped.

Crane-Warlo Automatic Shallow Well Units:

Crane-Warlo Shallow Well systems are furnished in various capacities, with electric or gasoline motor pump and storage tank, ready for all plumbing and electrical connections.

Size 215-A, shown above, has a 42-gallon storage tank, galvanized inside and out, with electrically welded seams. Its pumping capacity is 200 gallons per hour, ample for families of three to five persons. Systems No. 215-B and 215-C use the same pump and motor, with tanks of 53 and 82 gallons capacity for families of six and eight people.

Where larger capacity is needed, we recommend the use of Crane-Warlo No. 400 outfit. Shallow well pumps have maximum lift capacity of 22 feet.



CRANE DEEP WELL PUMP

Crane-Warlo Automatic Deep Well Unit:

The Crane-Warlo Deep Well Pump has a capacity of 150 to 250 gallons per hour. It is ideally suited for use with wells that range from 35 to 200 ft. in depth.

All working parts are enclosed from dust and grit in a permanent housing. Pistons, gears, plunger rods, etc., are balanced to give efficient service. Every moving part operates in a flood of oil from a small rotary pump, yet no water can reach the oil side of the pump.

Plungers are easily renewed, without disturbing the pump head itself. Motor, of ¼ to 1 H. P., depending on size and depth of well, is of latest and most economical type, with two pole automatic control switch. An exclusive feature is the air pump, operated or disengaged by a simple lever.

For further details and literature, write to: **CRANE CO. Chicago**

Hoosier Water Service Equipment

(Running Water—Under Pressure for Suburban and Isolated Homes)

Manufactured by

FLINT & WALLING MFG. CO.

28 Oak St., Kendallville, Ind.

Productions

A complete line of pumping equipment, including Hoosier Water Service, Hoosier Hand Pumps, Windmill and Power Pumps, and Star Windmills.

FLINT & WALLING MFG. CO. HOOSIER Water Service KENDALLVILLE, INDIANA U.S.A.

GALVAZINK

REGISTERED TRADE MARK U.S. PATENT OFFICE

TRADE MARK

All Pump Surfaces Galvanized Inside and Out

Hoosier Pumps, and the smaller sizes of pressure tanks, have an all-galvanized surface, inside and out. This is a heavy coating of pure zinc, applied by the hot-dipping process, and provides a serviceable protection against rust and corrosion. Water as supplied through one of these installations is delivered for use as pure as it comes from the well. This GALVAZINK surface is superior in every respect to paint, is easily cleaned, and will last as long as the metal to which it is applied.

Hoosier Pumps, for either shallow or deep wells, are self-lubricating. One filling of crank case with oil provides lubrication for many months.

The Convenience of Running Water

Every home owner appreciates the convenience of an adequate supply of running water, under pressure. This is a convenience which may now be had in any home, even though you may decide to build your home many miles from city water mains.

Hoosier Water Service equipment offers to suburban and isolated home owners a water service equal in every respect to that provided by city water mains. With this equipment any form of power, including electricity, gasoline engine, or windmill, may be used. Motors suitable for current supplied from farm lighting plants are also furnished with these installations.

The electric and windmill installations are automatically controlled, need no personal supervision other than an occasional oiling, and provide ample pressure at all times.

Soft Water from Your Cistern

Soft water, pumped from your cistern, and under pressure, is a thing found desirable in many localities, even though you may have city water in your home. Oftentimes the city water is too hard for many household uses, and an ample supply of soft water for use in kitchen, laundry and bath proves a blessing. The installation shown to the right, in capacities of 120 and 240 gallons an hour, are ideal ones for soft water pumping.

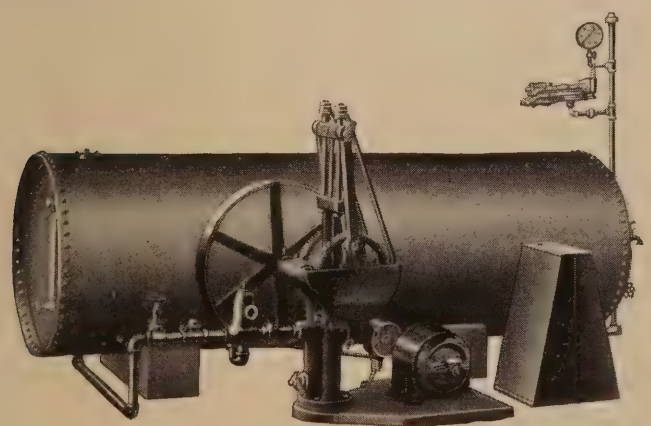
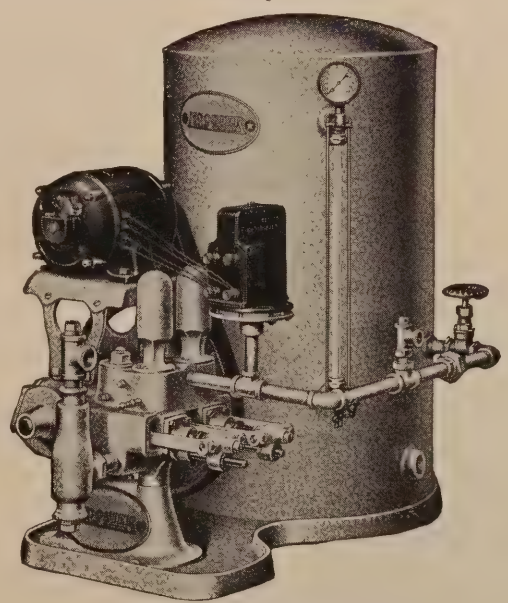


Figure 1380—A to D.



Capacity, 240 Gallons an Hour.
Tank Sizes: 33, 66 and 100 gallons.

Equipment for Wells of Any Depth

Hoosier Water Service equipment may be had for pumping from wells of any depth. Each installation is provided with air pumping attachment, so that air and water, or water only, may be pumped into the pressure tank.

Catalog No. 115

Catalog No. 115, describing our complete line of Hoosier Water Service, and Handbook of Modern Water Supply, containing useful information for anyone interested in a better water supply, will be sent, free of charge, upon request.

"Paul" Soft Water Generators
"Paul" Water Systems

Manufactured by
THE FORT WAYNE ENGINEERING & MFG. CO.
Fort Wayne, Indiana

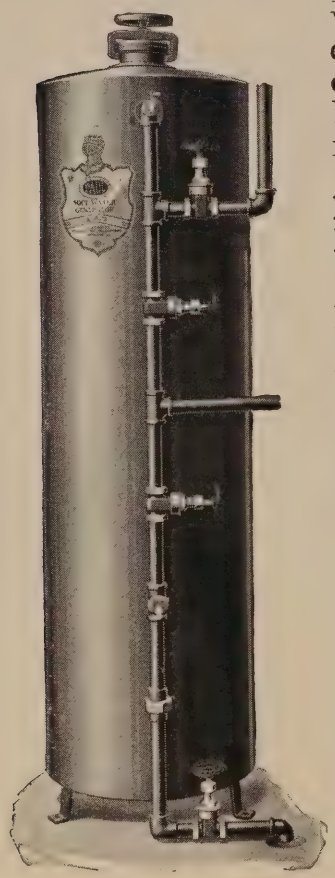
PAUL WATER SYSTEMS
For Home and Farm

Productions

A complete line of water softeners for the home. Unusually large capacity with small tanks. Long life and high efficiency.

Soft Water in Abundance

The Paul Soft Water Generator provides soft water at full city pressure at every faucet in the house where needed. It is just as pure as your water supply. Paul Type "A" is of the Zeolite type with upward flow. Does not affect pressure so may be used with a private water supply system with perfect success. Monel metal filter mat (Patent applied for) provides perfect distribution without sand or gravel and filters suspended matter from water before it reaches the mineral bed.



Easy to Regenerate

Because of high capacity and conservative ratings regeneration is required only at long intervals and is a simple process any woman can perform. Only four valves.

All Sizes

Paul Type "A" Soft Water Generators are made in four sizes with capacities ranging from 24,000 grains hardness to 60,000.

Send for Bulletin
No. 5035

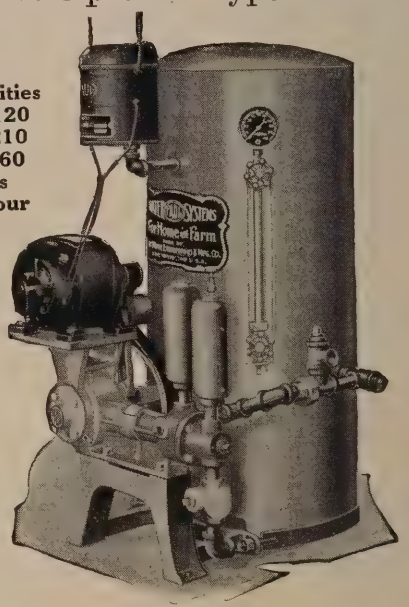
Productions

A complete line of pumping equipment, Paul Water Systems for shallow wells and cisterns, Paul Cushion Stroke Deep Well Pumps and Storage Systems.

Private Water Systems

Paul Systems provide running water under pressure for suburban homes and farms. They are entirely automatic, self-priming and fully guaranteed. Thoroughly dependable and fool proof. Type "US" Systems

Capacities 100, 120 180, 210 and 360 gallons per hour



for deep or shallow wells come assembled as complete units ready to start working when uncrated.

For Deep or Shallow Wells

There is a Paul Water System for every need. Water may be drawn from any source—deep or shallow well, spring, lake or cistern. Paul Systems are made in all sizes with capacities ranging from 100 gallons per hour to 1950 gallons per hour.

Write for Bulletin
No. 5033 Paul Systems for Shallow Wells
No. 5034 Paul Systems for Deep Wells
or General Catalog, No. 5023.

For further details and literature, write to: **FORT WAYNE ENGINEERING & MFG. CO., Fort Wayne, Ind.**

Gurley Automatic Water Systems

Manufactured by

GURLEY PUMP & MANUFACTURING CO.

814 Merchants Bank Bldg., Indianapolis

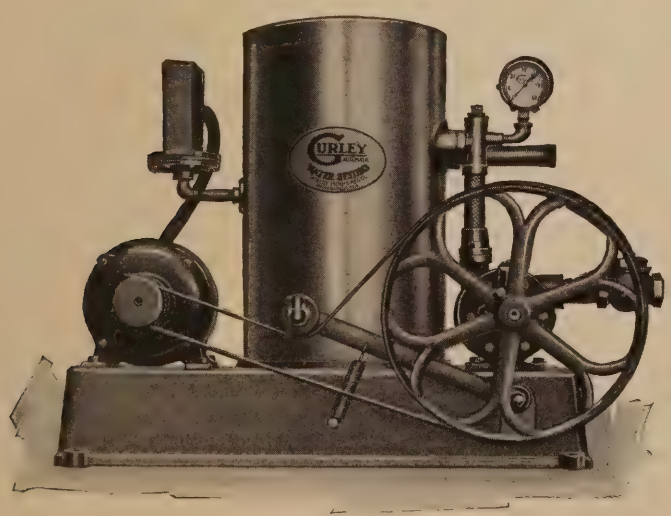
The MURDOCK Jr., $85.00 List, F. O. B. Indianapolis

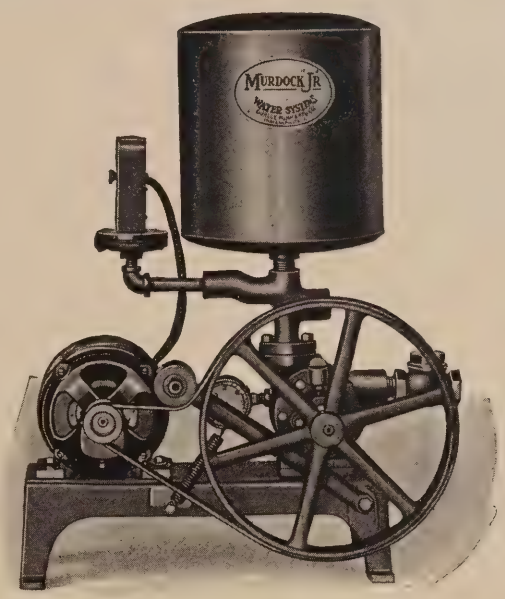
Meeting a great demand for a *reliable, compact, economical* automatic water system priced within the reach of all—the Gurley Pump & Manufacturing Company offers the MURDOCK, Jr.

Great simplicity, efficiency and durability make the MURDOCK, Jr., a highly satisfactory home water system in locations not requiring more than 150 gallons an hour capacity. This compact economical system is equipped with the Gurley Rotary Seal Pump, which can lift water 28 to 30 feet without annoying vibration or noise. This extraordinary efficiency for a shallow-well system is maintained in operation for long periods without excessive service troubles and cost.

You Can Sprinkle with a MURDOCK, Jr.

You can sprinkle with the MURDOCK, Jr., because the Gurley Pump delivers a steady non-pulsing stream at 40 pounds pressure and in average installations considerably exceeds its rated capacity of 150 gallons per hour.





THE MURDOCK, JR.

150 gallons an hour capacity. Supplied with 60 cycle AC motor, 110 or 220 volt.

Other Gurley Automatic Water Systems

The Gurley Rotary Seal Pump is so simple and strong in design that it operates with little service attention. Replacement of worn parts after long service is easy, quick, and economical.

Gurley Automatic Water Systems include other sizes of greater pumping capacities than the MURDOCK, Jr., all using this superior Gurley Rotary Seal Pump. You can select any of these Gurley Automatic Water Systems with the assurance of having a dependable water supply with great economy.

Model	Capacity in gallons per hour	Price
MURDOCK Jr	150	$85.00
Model A	165	99.50
Model B	220	141.50
Model C	400	169.50
Model D	600	205.00

All above prices are list, f. o. b. Indianapolis and subject to change without notice.

For further details and literature, write to: **GURLEY PUMP & MFG. CO.,** 814 Merchants Bank Bldg. **INDIANAPOLIS, IND.**

KEWANEE

WATER SUPPLY SYSTEMS
ELECTRIC LIGHTING PLANTS
SEWAGE DISPOSAL SYSTEMS

Made by

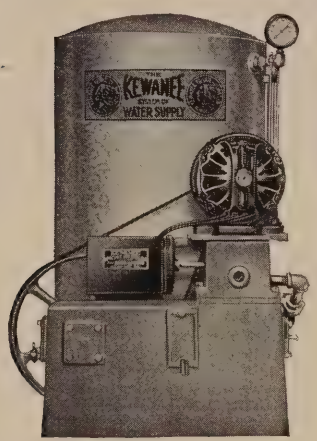
KEWANEE PRIVATE UTILITIES CO.

461 South Franklin St., Kewanee, Ill.

For thirty years the name Kewanee on private water supply, electric lighting and sewage disposal systems has been a guarantee of performance to contractors. In thousands of homes from the smallest bungalow or cottage to the most magnificent estate, buildings, institutions, country clubs, schools, churches, etc., they are giving daily service and satisfaction.

Water Supply

Kewanee Water Supply Systems are built in over 200 sizes and types to meet the requirements of any job—for suction on deep well—for cistern well or any source of supply—for electric or gasoline power. No. 110, shown herewith, is especially designed for small home use — priced within reach of most modest home. Kewanee models vary in capacity from 200 gallons to 10,000 gallons per hour.



Sewage Disposal

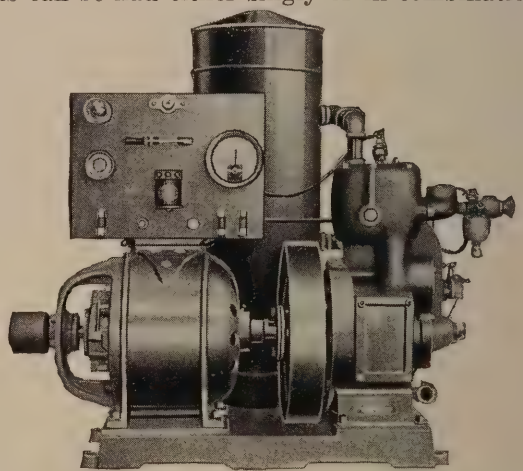


Kewanee Sewage Disposal Systems are so designed that the sewage is automatically reduced to a liquid form and automatically delivered to a tile disposal field where aerobic bacteria ever present in surrounding earth reduce it to a harmless state. Any contractor with a set of Kewanee Sewage Disposal System castings and Kewanee blue prints can install one of these plants as successfully as the thousands of others that have been in operation for years.

Electric Light

Kewanee Electric Lighting Plants are built in over 50 sizes and types with either one, two or four cylinder engines—with or without storage batteries, depending upon the daily period of time the plant is required to serve. Furnished in 32, 60 and 110 volt according to distance required for distribution of current. Like Kewanee Water Systems these plants are sturdy in construction and machined with the precision of the finest automobile.

Kewanee Water Supply and Electric Lighting Plants can be had either singly or in combination.



Special Service to Contractors and Architects

We have prepared for the contractor and architect a complete Specification Bulletin which enables you to select the proper size of systems for your clients no matter what the requirements. Our engineering department is at all times glad to consult with contractors and architects on the requirements of any special job and to furnish individual blue prints and specifications without charge. We will gladly send you further descriptive literature. Write today.

Electric Pumps—Single Valve Water Softeners

Manufactured by

THE MONARCH ENGINEERING CO.,

Dayton, Ohio

Products

Monarch Double-Acting Shallow Well Pumps and Systems
Monarch Deep Well Pumps and Systems
Monarch Single-Valve Water Softeners



The Monarch Automatic Double-Acting Shallow Well Pump

Is the basis of all Monarch shallow well systems. Built in four sizes with pumping capacities of 120, 200, 400 and 550 gal. per hour. Regularly equipped with repulsion-induction motor, two-pole automatic control switch, piston rod sleeve guard, improved valve seats, doubly packed stuffing box, safety relief valve, adjustable crank shaft bearings, cup leather expanders, etc. Equipped for electrical or gas engine drive.

Monarch Automatic Shallow Well Systems

Made up of regular Monarch shallow well pumps in four sizes combined with various tanks, cast iron base, water and pressure gauges, connection between pump and tank, all ready to install. A variety of systems with capacities suitable for all ordinary installations from small cottage to country estates, or small hotel.

Specifications of Shallow Well Pumps and Water Systems
Maximum Suction Lift 22 ft. Maximum Pressure 50 lbs.

System No.	Pump No.	Cap. Gal. Per Hr.	Pipe Connections, In.		Motor H.P.	Tank Cap. Gal.	Tank Dimensions
			Suction	Discharge			
102	100	120	¾	¾	⅛	35	18 x 30
204	200	200	¾	¾	⅙	70	18 x 60
406	400	400	1	¾	¼	120	24 x 60
456	450	550	1	¾	⅓	120	24 x 60

Galvanized tanks standard. Black iron tanks, if desired.

Systems Suggested for Various Size Houses

For 5 to 7 room house specify No. 102 or 204.
For 8 to 10 room house specify No. 204 or 406.
For 12 to 14 room house specify No. 406 or 456.
For larger buildings write for specifications on larger Monarch units.

Monarch Automatic Wall Units

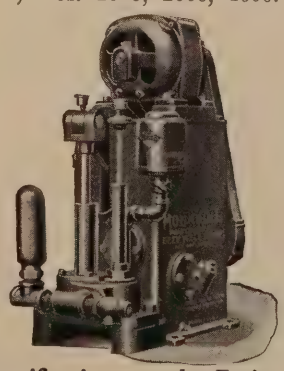
Offer a complete water supply system for direct service from cistern or well, etc. Designed for domestic use where cellar space is limited. Three sizes, Nos. 1000, 2000, 4000.

Monarch Automatic Deep Well Pumps

Full range of sizes for use where the vertical lift runs from 22 ft. up to 650 ft.

Series No. 600 has fully enclosed working parts running in an oil bath. Is motor driven, chain drive, or pulley equipped for power drive.

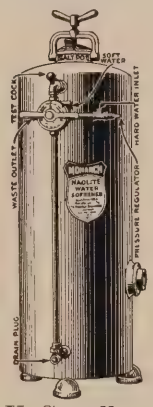
Series No. 700 is for still heavier duty and still larger capacities. All working parts, and noiseless chain drive, running in oil bath.



For Complete Information and Specifications on the Entire Line of Pumps, Write Us Direct

Selecting Proper Size Water Softeners

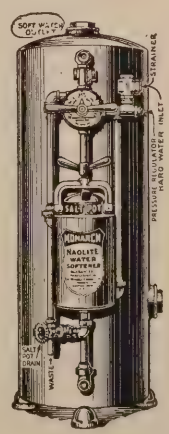
All Monarch Softeners Single Control Valve Type



For ordinary household purposes a Softener should be of sufficient size so that it will not have to be reconditioned more than once every three or four weeks, while a longer period is even better.

The table below shows the approximate usage of soft water per week for a family ranging from two to ten persons per family. By referring to this table showing capacities of Monarch Softeners, the correct size can be readily determined; i. e., if you reside in a city having water of 20-grain hardness per U. S. gallon and there are four persons in the family, you will use approximately 490 gallons of soft water per week, or approximately 2,000 gallons per month.

By referring to the table below you will find that for 20-grain water, our size MD-33 will soften 2,500 gallons of water before reconditioning is necessary. This size Softener would, therefore, provide a sufficient supply of soft water for one month, while if size MD-32 were used, the Softener would have to be reconditioned once every three weeks.



Approximate Usage of Soft Water Per Week

Persons in Family...	2	4	6	8	10
Usage, in gallons....	280	490	640	790	940

Dimensions and Weights

Height over all ranges from 44 in. in small size up to 62 in. in largest.

Floor space required ranges from 15 in. x 15 in. up to 22 in. x 33 in.

Shipping weight ranges from 200 lbs. up to 810 lbs.

Softeners for Use in Localities Where Water Is Clear

Type	Total Grain Capacity	Gallons Soft Water Available Between Re-conditioning Periods — Hardness is Specified in Grains per U. S. Gallon					
		10-gr.	16-gr.	20-gr.	24-gr.	30-gr.	36-gr.
MD-20	10000	1000	625	500	415	335	275
MD-21	20000	2000	1250	1000	835	670	555
The MD-20 and 21 are arranged for Internal Salting							
MD-31	20000	2000	1250	1000	835	670	555
MD-32	30000	3000	1875	1500	1245	1000	830
MD-33	50000	5000	3125	2500	2085	1670	1385
The MD-31, 32 and 33 are provided with External Salt Pot							

Softeners for Localities where Water requires Filtering to Clear It

Type	Total Grain Capacity	Gallons Soft Water Available Between Re-conditioning Periods — Hardness is Specified in Grains per U. S. Gallon					
		10-gr.	16-gr.	20-gr.	24-gr.	30-gr.	36-gr.
M-11	8800	880	550	440	366	293	245
M-12	13200	1320	825	660	549	440	364
M-13	24200	2420	1512	1210	1005	805	672
The M-11, 12 and 13 are provided with External Salt Pot							

Larger Sizes for Hotels, Apartment Houses and Industrial Use
Specifications and Prices Upon Request

For further details and literature, write to: THE MONARCH ENGINEERING CO., DAYTON, OHIO

MYERS WATER SYSTEMS

Made By

THE F. E. MYERS & BRO. CO.

Ashland, Ohio

Established 1870

Branches and Distributing Houses in Principal Cities

Products

Well, House and Cistern Pumps, Water System, Self-Oiling Power Pumps, Cylinders, Spray Pumps, Hay Unloading Tools, Door Hangers, Store Ladders, Etc.

Description

Recognizing the wide-spread demand for modern water facilities among all classes of people. Myers Water Systems have been developed and perfected to give every home, regardless of its size or location, economical and reliable water service. Not merely one or two types but a complete line to take care of every requirement from the smallest home to the most costly one where the volume of water used daily amounts to thousand of gallons.

Water systems for hand operation, for windmill, for gas engine, for electric motor—for deep or shallow service —for inside or outside installation—for open or pressure tanks—you will find them in the Myers Line which has over fifty years of pump building experience as well as a modern factory behind it to guarantee economical and efficient water facilities.

TAKE OFF YOUR HAT TO THE MYERS PUMPS FOR EVERY PURPOSE HAY TOOLS & DOOR HANGERS

TRADE MARK

Myers Water Systems have many places of service other than in homes. There are styles for summer resorts, hotels, laundries, hospitals and sanitariums—for creameries and dairies—for centralized schools and colleges—for country estates and golf courses—for mills, mines and factories. For household, for farms, for industry, for pleasure Myers Water Systems are serving everywhere.

Catalog and Information

We will be glad to have carpenters, contractors and others allied with the building industry write us for catalog and information, and will be pleased to quote direct to those who sell and distribute builders' supplies.

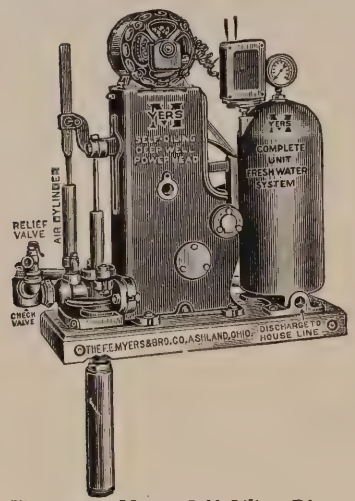


Fig. 2253—Myers Self-Oiling Direct Water System for Deep Wells.

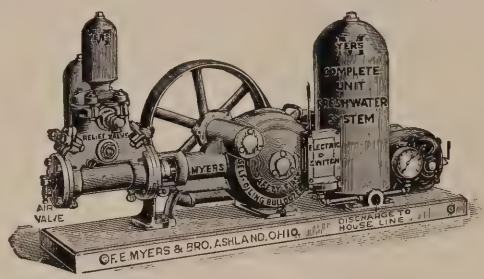


Fig. 1980—Myers Self-Oiling Direct Water System for Shallow Wells

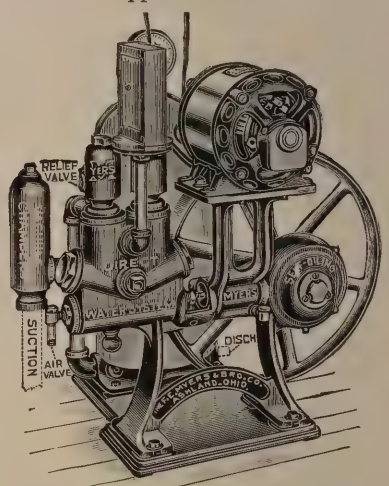


Fig. 2211—Myers Self-Oiling Junior Direct Water System for Shallow Wells

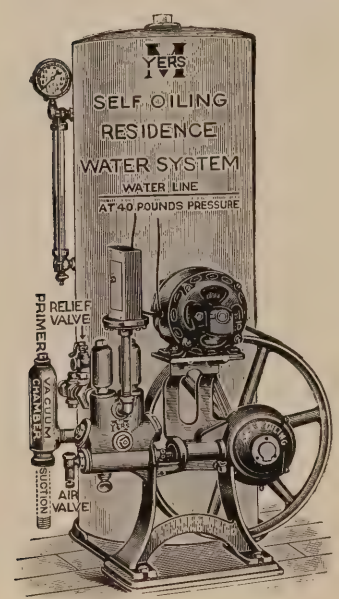


Fig. 2181—Myers Self-Oiling Home Water System for Shallow Wells and Cisterns.

Fig. 2181

Illustrates the Myers Self-Oiling Home Water System for shallow wells and cisterns. It is designed for operation from any kind of city current or from farm lighting and power systems. This System comes in two sizes with capacities of 200 and 300 gallons per hour is automatically controlled and is complete in every respect ready for installation.

Fig. 2253

The Myers Self-Oiling Direct Water System for deep wells, does not require a pressure tank. It pumps the water fresh and cold from its source of supply direct to the water taps. As indicated by the illustration, it is a complete unit ready for installation. It has a capacity up to 450 gallons per hour according to size of lower cylinder. Self-oiling, self-starting, self-stopping it overcomes numerous problems so frequently encountered in deep well service.

Fig. 1980

The Myers Self-Oiling Direct Water System for shallow wells, is a compact unit, fully equipped and occupies small space. It pumps the water direct from the well or cistern to the faucets (storage tank not required), is automatically controlled and will provide up to 450 gallons of water per hour on a highly economical basis. Easily and quickly installed, low cost to maintain, dependable service, long life, are a few of its desirable features.

Fig. 2211

Illustrates the Myers Self-Oiling Junior Direct Water System. Here is another complete Myers Unit, with capacities of 200 and 300 gallons per hour, which pumps the water direct to the water taps. It is motor driven, automatically controlled, economical and efficient. It is designed for shallow well service only and can be operated by any current. A wonderful outfit for homes, farms, country estates, etc.

Fig. 2252

Shows one of the Myers Deep Well Water Systems completely equipped with pump, motor, tank, switch, guage, air cylinder, etc., (everything except the lower cylinder) ready for installation. This outfit will supply an abundance of water for large homes, estates, etc., where the daily water requirements are greater than ordinary. It is self-oiling, automatically controlled, easily installed and operated, and is furnished with or without Four Foot Anti-Freezing Set Length.

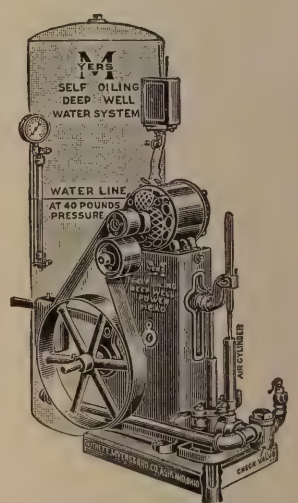


Fig. 2252—Myers Self-Oiling Deep Well Water System

For further details and literature, write to: **THE F. E. MYERS & BRO. CO., Ashland, Ohio**

Myers Water Pumps, Power Pumps and Door Hangers (Continued)

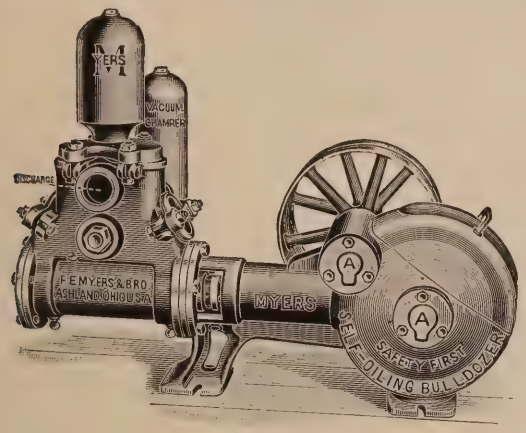


Fig. 1866
Myers Self-Oiling Power Pump for Shallow Wells, Cisterns, Etc.

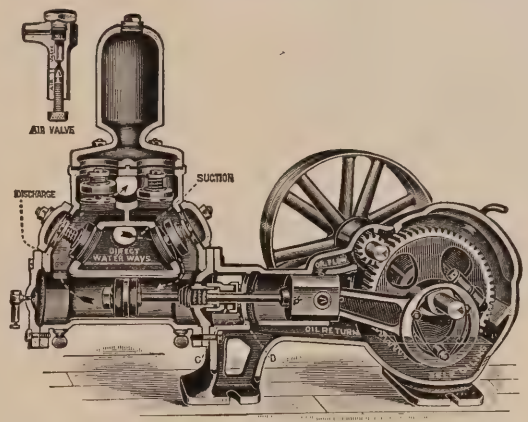


Fig. 1819
Sectional View Myers Self-Oiling Power Pump

Myers Self-Oiling Bulldozer Power Pumps for Shallow and Deep Well Service

Myers Self-Oiling Bulldozer Power Pumps with their numerous patented features have created a new standard of power water service which cannot be compared with water facilities of but a few years ago. When compared with older types they have larger valves, more liberal and direct waterways, a positive self-lubricating system, improved method of power application, housed working parts and other features which permit operation against heavy pressure or at high speed securing large volume and high efficiency at a minimum of cost and without the fear of accidents or breakage through carelessness, poor lubrication or exposed working parts.

Myers Self-Oiling Power Pumps are designed for general service in agricultural, commercial and industrial fields. Twelve sizes for shallow wells or cisterns and five sizes for deep operation compose the line. Capacities 250 to 10,000 gallons per hour. Operation any power. Inside or outside installation. Rightly named general service pumps, whether it be in the home, on the farm or country estate where pumping duties are comparatively light; in the creamery or dairy where it is always necessary to have plenty of fresh water; at the park, summer resort or golf course where sprinkling and sanitary conditions depend on an ample supply of pure water; in the mill, mine or factory where plenty of water is absolutely essential in the daily activities of the operatives; in the public school or college, in the hospital or sanitarium where pure water is of vital importance and is given every consideration; in road building and similar work where water is now used in large volume and must be near at hand keep down construction costs; in fact, wherever water is used in sufficient quantity to justify the installation of a power pump, there is a Myers Self-Oiling Power Pump, waiting, willing and ready to give twenty-four hour water service without care or attention, and at a minimum of cost that cannot be approached by old style pumps.

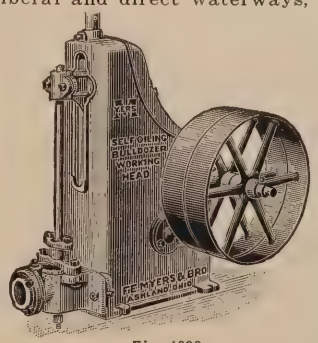


Fig. 1996
Myers Self-Oiling Deep Well Power Pump or Working Head

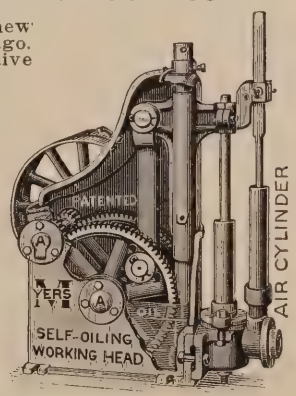


Fig. 2049
Sectional View Myers Self-Oiling Deep Well Power Pump or Working Head

MYERS Door Hangers

Myers Stayon and Tubular Door Hangers fulfill the demand for hangers that are storm, dirt and bird proof, stay on the track, and which are durable and easy to push or pull. They are manufactured in numerous styles and sizes and offer many practical features not to be found on other hangers. Special improvements include adjustable, flexible and stayon features, roller bearings, heavy steel axles, etc. Some styles are adapted for either light or heavy sliding doors on all kinds of buildings while other types are designed for hinged sliding or folding doors on garages and similar buildings.

Several of the most popular styles are illustrated herewith, but for the complete line it requires a special catalog to fully illustrate, describe and list it. A copy of this catalog with information and prices will be sent promptly to anyone allied with the building industry. Dealers prices to builders' supply houses, lumber merchants, dealers, etc.

Catalog and Information

Limited space prevents detailed description and full sized illustrations but to those who are interested in modern power water facilities, either for sale and installation or for personal use, we will be pleased to send catalog and information.

Fig. 2156

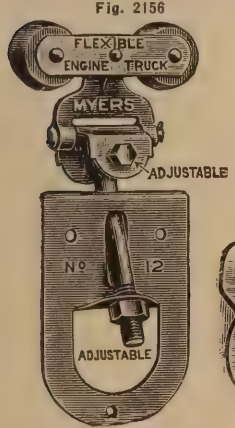


Fig. 2159



Fig. 1154



Fig. 1302

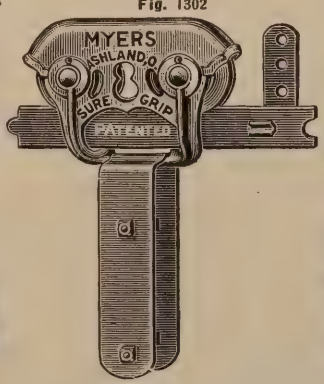


Fig. 2058

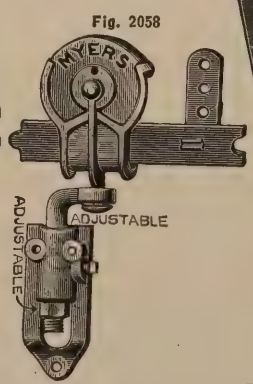


Fig. 998



For further details and literature, write to: **THE F. E. MYERS & BRO. CO., Ashland, Ohio**

V-K Water Systems and Water Softeners

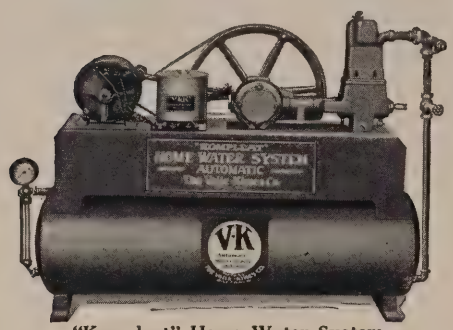
Manufactured by

Eastern Offices:
130 Claremount Ave.
New York City
310 Congress St.
Boston, Mass.

THE VAILE-KIMES COMPANY
Dayton, Ohio

Western Offices:
210 N. Los Angeles St.
Los Angeles, Cal.

V-K AUTOMATIC WATER SYSTEMS



"Kompleat" Home Water System

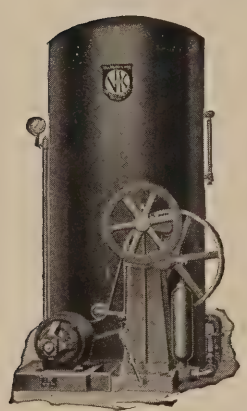
The V-K "Kompleat" automatic water system is an electric driven shallow well unit suitable for delivering water from well, spring or any other source of supply where the vertical lift is not more than 22 feet.

This unit is especially adapted to suburban homes, country estates, farms or wherever water under pressure is desired. It is also used for delivering rain water from cisterns for soft water supply. It is entirely automatic in operation.

V-K water systems are made in a wide range of sizes, pump capacity ranging from 150 to 1000 gallons per hour and horizontal or vertical tank ranging from 20 to 1500 gallons.

The outstanding feature of V-K pumps is the slow speed at which they operate to deliver their rated capacity. V-K slow speed pumps last a life-time.

V-K DEEP WELL WATER SYSTEMS

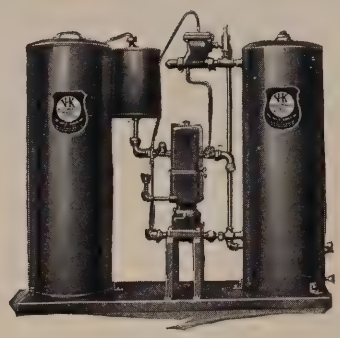


Style "G" Deep Well Automatic Water System

Style "G" is an electric driven deep well automatic water supply system suitable for delivering water from drilled wells. V-K deep well pumps are made in a large number of sizes—their capacity ranges from 120 to 1000 gallons per hour and they are used in connection with the wells where the water level exceeds 22 ft. but is not more than 325 feet from the surface.

V-K deep well systems are entirely automatic in operation, automatically maintaining a pressure of 50 lbs. in the pneumatic tank, or proper water level in the open elevated tank with which they are used. They are belt driven and equipped with open type well cylinders. The systems are furnished with vertical or horizontal tanks ranging in capacity from 40 to 1500 gallons.

V-K AUTOMATIC WATER SOFTENERS



Type "A" Automatic Water Softener

V-K automatic water softeners are made in a number of different types and sizes suitable for any household requirements.

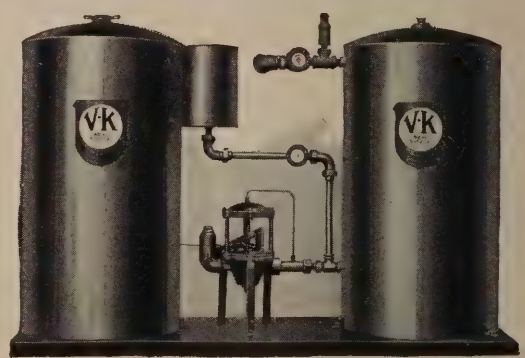
The principle of the V-K softener is very simple—the softener contains a sufficient quantity of special treated natural mineral to last indefinitely. City water is passed thru this mineral which removes absolutely all the hardness and leaves the water pure, clean and velvety soft.

This softener automatically reconditions itself—that is, when the mineral tends to become inactive, a solution of brine is passed thru it, bringing the mineral back to its original state.

V-K softeners do not allow hard water to enter the soft water service lines. There is absolutely no chance for a mixture of hard and soft water.

V-K automatic softeners are also furnished with a reserve soft water storage tank which insures an ample supply of zero soft water all the time, even during the reconditioning period. When desired, V-K automatic softeners are enclosed in an attractive cabinet which conceals the mechanisms and make a very neat appearing unit.

V-K SEMI-AUTOMATIC WATER SOFTENERS



Type "SA" Semi-Automatic Water Softener

V-K softeners are also made in the semi-automatic and hand-operated type. Type "SA" semi-automatic softener illustrated is the nearest approach to the automatic softener ever built, the only difference being that in the automatic softener the brine is automatically injected into the mineral bed thru valves controlled by a meter, while in the semi-automatic it is admitted thru hand-controlled valves.

The time required to recondition this softener is practically negligible as it takes just a minute to operate the two handy valves which are so conveniently arranged that even a child can easily operate them.

V-K softeners are made in two hand-operated types, known as type "M" and "V" type in addition to the semi-automatic type "SA" illustrated.

For further details and literature, write to: THE VAILE-KIMES COMPANY, DAYTON, OHIO

Penberthy Automatic Cellar Drainer

Made by

PENBERTHY INJECTOR COMPANY

1242 HOLDEN AVE., Established 1886 DETROIT, MICH.

Products

On this page is illustrated and described but one of many products made by this company—the Penberthy Automatic Cellar Drainer—a device that for years has proved its usefulness and efficiency, when installed in the basement of buildings, in removing seepage, flood or back water from points below the natural drainage level of sewer.

Other Penberthy products are: Automatic and Auto-Positive Injectors, "XL-96," Swimming Pool Heater, "XL-96" Ejector, Water Gages, Water Heaters, Oil and Grease Cups, Air Cocks, Priming Cups, Carburetors, Reatomizers, Radio Products, Oil Burners, etc.

Advantages

The Penberthy Automatic Cellar Drainer operates by city water pressure and is compactly constructed to occupy the least possible space. It is entirely automatic and requires no attention after installation.

All working parts are above water—no slime or corrosion to interfere with operation.

A foot valve in the strainer seals suction pipe when the drainer stops working, holding all water in the pipe, so that it is always primed ready to start instantly. Also prevents flooding of cellars if for any reason the water pressure is insufficient to operate the ejector.

Operating valve opens and closs instantly by action of water pressure. No leather washers are used as leather dries and warps, causing serious leaks.

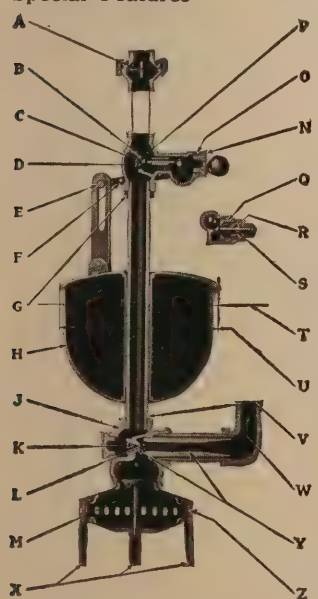
With exception of copper float, it is mad entirely of brass.

The combination pressure water strainer and union furnished with every drainer (See letter A, cut No. 383) obviates the necessity of purchasing a union and makes it possible to clean strainer thus preventing the drainer from becoming clogged with dirt and refuse.



Cut No. 381 Automatic Cellar Drainer Model R

Special Features



A—Strainer catches all dirt and eliminates valve seat leaks and choked ejectors jets, also serves as pipe union.

B—Valve Seats protected against dirt by strainer in water supply pipe.

C—Bronze Valves give long service.

D—Closing valve is positive, avoids waste of pressure water but not sudden enough to cause water-hammer.

E—Patented lever and link action adjustable to different water pressures, shows float to be nearly submerged before valve opens, and gives a pop to the opening avoiding any dead center trouble.

F—Long lever increases operating range to 100 pounds.

G—Rubber shock absorbers to project lever and stem sasembly from float impact.

H—Float operates drainer automatically.

J—Ejector below water level eliminates all suction and priming trouble.

K—Small throat protectd against dirt by strainer.

L—Improved and patented ejector of high efficiency using minimum water pressure.

M—Emergency foot valve to prevent water from coming into cellar, also holds delivery pipe full of water when ejector shuts off.

N—A pressure gage can be esaily attached by removing valve body plug which is provided with a ½ pipe thread.

O—Pipe thread used, making it convenient for attaching air chamber if necessary.

P—Improved bevel seat, bronze valves, interchangeable without being ground into a special body.

Q—Patented packing box gives large body of packing but eliminates friction.

R—Rotary Valve reduces all stem packing friction and trouble.

S—The movement has only one point of friction. Rotary packing movement is based upon natural unchanging laws. No springs. Movement simple and unaffected by dirt.

U—Requires least floor or sump space —patented float "built around suction tube" construction.

V—Both ends of brass tube threaded outside—no possibility of cracking or plitting.

X—Legs holding strainer about dirt which may accumulate in bottom of sump.

Y—Both ejector jets removable for replacing or changing.

Z—Strainer of large surplus area.

Installation and Operation

The sump or pit may be constructed of cement, brick, sewer crock, iron pipe, or any other suitable material. The compactness of the drainer requires only a very small sump, although it is good to have it a little larger than is actually necessary, especially in depth to allow dirt to settle below the strainer. The pit should be placed so that all surplus water will drain to it. A cover that is **not** air tight should be made in two sections to fit around pipes (D) and (E) (see cut 382). On next column are shown all necessary dimensions the letters at top referring to cut No. 382.

The drainer Valve (C) is normally **in a closed position.** As the water rises in the sump it lifts the float (L) **until** sufficient water has accumulated to cause the buoyancy of the float to open the valve (c) thus starting the ejector (F). The ejector pumps rapidly until the level of water in the sump is lowered to a point where the float (L) descending with the water, automatically closes the valve (c). The cellar Drainer now remains inactive, using no pressure water until the sump has again filled with seepage water. The complete Cellar Drainer is below the floor level yet all parts are easily and instantly accessible without disconnecting pipes or removing drainer. All working parts are located at the top within easy reach.

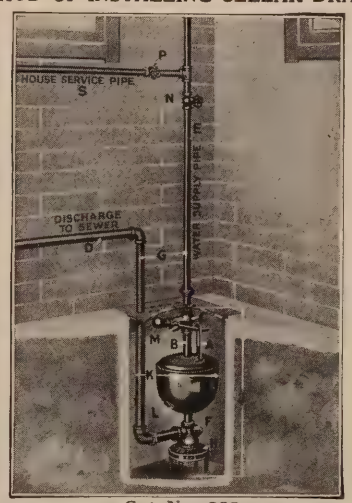
Size No	E City Pressure (or Steam) Line I P Size	D Discharge Line I P Size	K Extreme Diam. of Drainer Inches	J Height of Drainer Inches Valve Open	G Approx Centers of Cut-outs in Pit cover Inches	Minimum Size Sump: Minimum Diam. Inches	Minimum Size Sump: Minimum Depth Inches
1	½	1	10⅛	21½	6	12	24
2	¾	1¼	12⅞	21½	7½	16	24

List Price—Model "R"

Size No Model "R"	1				
List Price	$25.00	$40.00			

Prices for Larger Sizes Quoted on Request

METHOD OF INSTALLING CELLAR DRAINER



Cut No. 382

Table of Capacities at Different Pressures and Elevations, Pipe Sizes, etc., Model "R"

Size and Model	Pipe Sizes: Supply	Pipe Sizes: Discharge	Working Head in Ft.	Maximum Net Capacities from Sump in Gallons Per Hour at 10 to 100 Pounds Water Pressure: 10	15	20	25	30	40	60	80	100
No 1 Model R	½"	1"	3	80	210	300	340	400	510	700	720	700
			6		90	140	240	300	390	570	670	690
			9			90	150	210	330	480	620	660
			12				100	150	220	390	550	630
			15					90	190	200	450	600
			18						120	250	320	550
No. 2 Model R	¾"	1¼"	3	190	390	550	620	750	910	1180	1240	1220
			6		210	340	420	600	750	1020	1140	1200
			9			210	300	380	540	900	1090	1150
			12				210	300	420	780	1020	1110
			15					210	370	570	940	1050
			18						300	510	850	970

Unless otherwise specified, the model "R" drainer (see cut No. 381) is supplied and used for all conditions as printed in bold face type as shown in the table of capacities. (See table above)

For conditions below bold face type we furnish a low pressure drainer.

The model "R" drainer requires 5-pound water pressure or more for each one foot of elevation, while the low pressure drainer will work on 2-pound to 4-pound per foot of elevation, which we can supply from factory.

Working Head in Feet	Approximate Gals. or Fractional Gals. of Pressure Water Required to Pump One Gal. from Sump with a Model "R" Drainer: 10 lbs.	15 lbs.	20 lbs.	30 lbs.	40 lbs.	60 lbs.	80 lbs.	100 lbs.
3	.80	.50	.40	.38	.35	.30	.30	.35
6		.90	.75	.50	.42	.38	.38	.40
9			1 0	.65	.5	.45	.40	.41
12	For conditions below bold face type we can furnish a special Drainer			90	65	.52	.45	.42
15				1.2	.85	.60	.50	.43
18					1 0	.70	.55	.45

For further details and literature, write to: **PENBERTHY INJECTOR CO.,** DETROIT, MICH. Established 1886

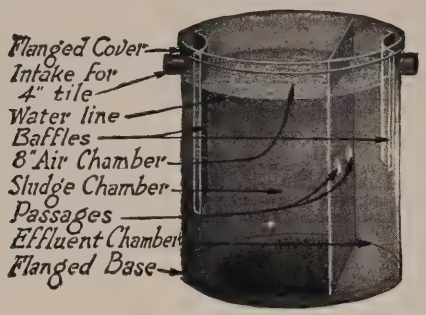
SEWAGE DISPOSAL SYSTEM

San- Equip Septic Tanks -:- San-Equip Chemical Toilets

CHEMICAL TOILET CORPORATION

SYRACUSE, N. Y.

The SAN-EQUIP Septic Tank



For the suburban Home, Camp, School

MATERIAL—12 and 14 ga. Copperoid Iron (Rust-Proof Enameled).

DESIGN—Follows specifications of U. S. Public Health Service.

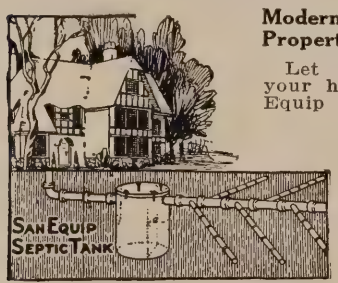
DURABILITY—Mineral enamel process unaffected by moisture.

CAPACITY—Single home to large schools, mills or communities.

The Septic process simply stated is a digestion of sewage by which solids are eliminated and final disposal simplified. The treated sewage is to be disposed of by soil filter as shown below or by dry well or streams when permissible.

Advantages of the San-Equip Septics

1. Unbreakable—Made of iron—strongest known material.
2. Indestructible—Rust-proofed by mineral enamel melted on inside and outside. Tests and chemist's analysis show it is unaffected by moisture, acids or soil.
3. Lightest Weight—Home size 290 lbs. Saves handling expense.
4. Ready to Use—One unit, no assembling of parts or material.
5. Saves Time and Supervision—Speeds up the finished job and thus saves money.



Modern Sewage Disposal Increases Property Values

Let your customers know that your homes are protected by San-Equip Septics. Such careful provision for underground sewage disposal inspires confidence and increases values.

Specify San-Equip Septics when ordering your plumbing fixtures. Prompt delivery from our nearby warehouse stocks.—returnable at our expense.

Sizes and Ratings

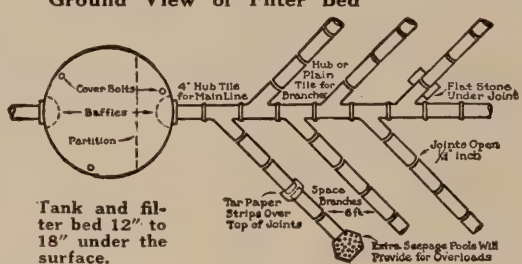
No.	Net Gal.	Rating People Home	School	Size—In. Diam.	Length	Weight Lbs.	Price
402	200	6	12	38	48	295	**$ 48.00**
403	300	10	20	47	48	325	**64.00**
405	500	20	35	48	72	420	**96.00**
410	1000	50	65	60	96	950	**192.00**

Ask for plan sheets showing details of above, also larger sizes.

Ground View of Filter Bed

120 to 150 of 4" tile cares for the ordinary home.

Ask about other plans of disposal.



Tank and filter bed 12" to 18" under the surface.

The SAN-EQUIP Chemical Toilet

Sanitary Indoor Toilet Without Water Plumbing

Especially adapted for use in homes, camps, schools, mills, roadside inns, tourist camps, gas stations, parks, etc.

This simplified and improved system now makes possible better toilets and better health conditions for buildings without water supply.

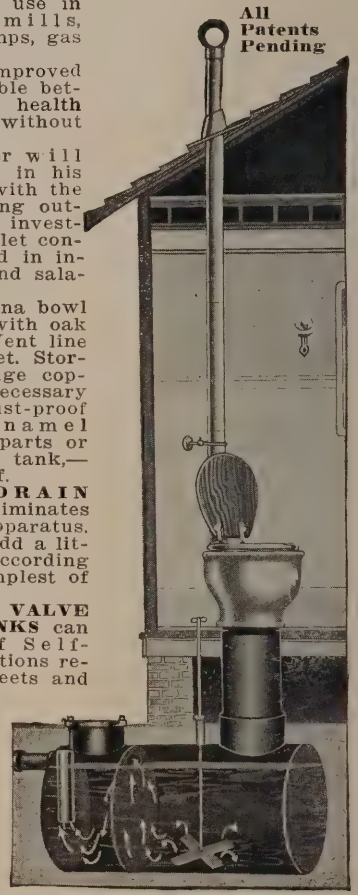
The progressive builder will incorporate this toilet in his plans, thus doing away with the unsightly disease breeding outhouse. The small added investment in this sanitary toilet convenience is amply repaid in increased attractiveness and salability of any property.

SPECIFICATIONS—China bowl of special design fitted with oak finish, non-split seat. Vent line from bowl to proper outlet. Storage tank of heavy gauge copperoid iron and all necessary fittings. Tanks are rust-proof enameled by mineral enamel melted on. No moving parts or attachments inside the tank,—simple and trouble-proof.

THE NEW SELF-DRAIN STORAGE TANK eliminates handling of sewage or apparatus. Only care needed is to add a little chemical monthly according to service required. Simplest of all methods.

FORMER DRAIN VALVE TANKS OR TIGHT TANKS can be furnished instead of Self-Drain Tanks where conditions require. Ask for plan sheets and description.

All Patents Pending



PERFECTION CHEMICAL is packed especially for use in San-Equip Systems extra strength, white flake, packed in 5 lb., 10 lb., 15 lb., 25 lb., 50 lb. packages—specify capacity of tank when ordering.

Sizes and Ratings

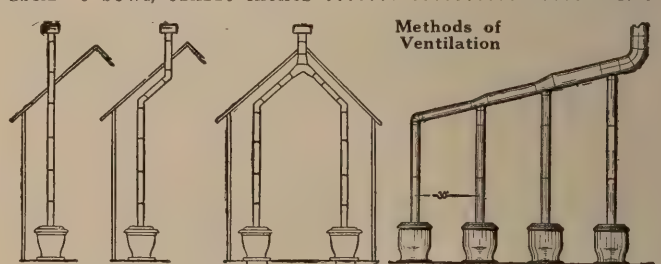
No.	Gal.	Rating, People Home	Camp	School	Size of Tank Diam.	Length	Weight Pounds	Price
360A	60	4	5	..	22½"	36"	200	**$64.00**
380A	80	7	9	15	22½"	48"	275	**76.00**
3128A	128	12	12	25	28"	48"	325	**88.00**

Multiple bowl tanks are made in size from 2 to 6 bowls. 125 gal. tank capacity for each bowl. Full vent is included if plan is sent.



352A—2 bowl, 29x 88 inches **$176.00**
353A—3 bowl, 29x124 inches **264.00**
354A—4 bowl, 32x144 inches **352.00**
355A—5 bowl, 32x180 inches **440.00**
356A—6 bowl, 32x216 inches **528.00**

Methods of Ventilation



For further details and literature, write to: **CHEMICAL TOILET CORPORATION, Syracuse, N. Y.**

Wolverine Chemical Toilets and Septic Tanks

Manufactured By

DAIL STEEL PRODUCTS COMPANY

LANSING, MICHIGAN



Home Unit 1

Use

Wolverine Chemical toilets are for use in all unsewered districts. Eliminates the outside privy—affords the same comfort and convenience as a water flush toilet at a lower cost per unit. Approved by leading Sanitarians and thousands of users. Established and used for twelve years.

Attractiveness

Every Wolverine Toilet is an attractive addition to any home. Equally as attractive as any water toilet.

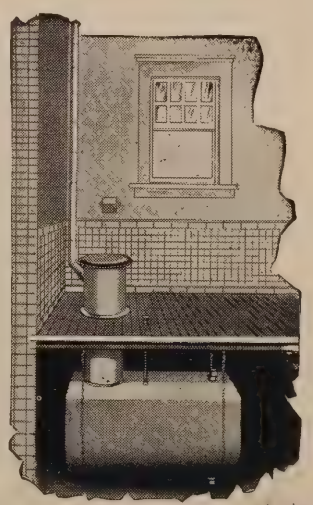
Service

Our complete engineering force are at your command at any time to help you solve your problems. We specialize in fitting the piping to the building.

Equipment

The Wolverine home unit shown in the accompanying cut is designed to accommodate a family of from four to five for five to six months without draining and recharging. Consists of large tank with drain valve and agitator. Vitreous china bowl, fine seat and proper ventilating pipe.

Special small home or cottage units are built on the same principal as larger units only smaller tanks to accommodate less people or for only intermittant use. Also furnished with either steel or china bowls as desired.



Special Cottage Type

Multiple Units

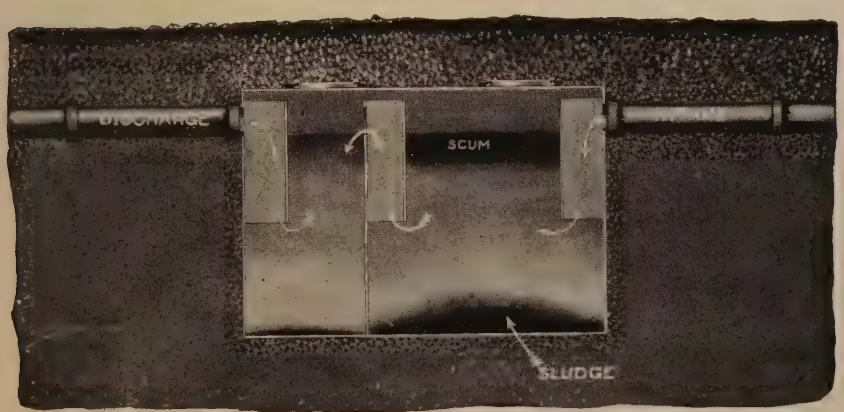
Wolverine Chemical Toilets are furnished in larger units up to five bowls on one tank for large public installations, with ventilating pipe built to fit its respective job.

Guarantee

Each Wolverine is fully guaranteed and have been used extensively for 12 years.

Prices

Our prices are very reasonable. Sent on application. Write us for complete catalog and details.



Cross Section of Septic Tank

Septic Tank

The Wolverine Septic Tank is designed for use in connection with a water flush toilet system and forms a modern method of sewerage disposal at a very nominal cost. Made of Keystone Copper Bearing Steel and painted inside and out with a corrosion resisting enamel. Quickly and easily installed.

	Capacity	Size
S. T. 5 Tank.....	202 Gallons	24x54x42

Will accommodate 5 to 8 people using a bath, toilet and kitchen sink.

Complete data on seepage area sent on request.

For further details and literature, write to: **DAIL STEEL PRODUCTS CO., Lansing, Mich.**

Kaustine Septic Tanks and Chemical Toilets

Manufactured by

KAUSTINE COMPANY, Inc.

200 Van Rensselaer St., Buffalo, N. Y.

Products

Chief products are:
(1) Kaustine Super-Septic Tanks
(2) Kaustine Chemical Toilets

Principal Uses

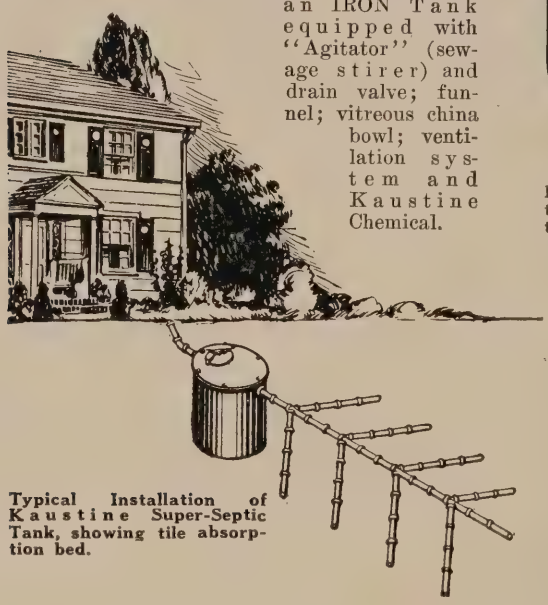
Where running water is available the Kaustine Super-Septic Tank provides a complete sewage disposal system, receiving the wastes from the home and disposing of them with little or no attention or upkeep. The sewage disposal of the modest cottage, large country club, factory or entire community can be cared for by this system.

The Kaustine Chemical Toilet provides a sanitary, convenient and comfortable indoor toilet for home, camp, school or factory. A water system is not required.

Description of Products

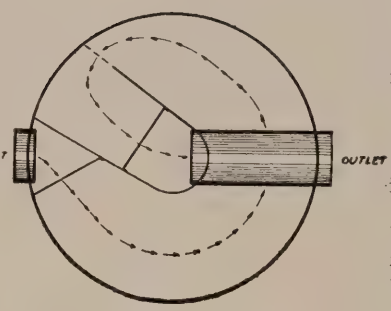
Due to the peculiar design embodied in this sewage disposal tank, the sewage undergoes a process of bacterial (anaerobic) decomposition and gasification which breaks down the solids and leaves a liquid for final disposal. The bacterial action in this sewage disposal system is completely due to the positive but slow movement of the sewage through it. More complete liquefaction, less scum and sludge and a clearer and more easily-assimilated effluent are the results of these superior features of design. The danger of contamination of underground sources of water supply is reduced to such a degree that health authorities throughout the country endorse the Kaustine method of sewage disposal.

The Kaustine Standard Toilet is a complete sewage disposal system. It consists of an IRON Tank equipped with "Agitator" (sewage stirer) and drain valve; funnel; vitreous china bowl; ventilation system and Kaustine Chemical.



Typical Installation of Kaustine Super-Septic Tank, showing tile absorption bed.

Kaustine
TRADE MARK



Plan View of Interior



(Cut-away View)
Illustrating the patented interior arrangement of Kaustine Super-Septic Tank.

Types and Sizes

For installations where economy is necessary we manufacture a steel Septic Tank. This is made only in the smaller domestic sizes. The Super-Septic is recommended and made in all sizes to meet the needs of the home, club, factory or community. The Kaustine Super-Septic Tank is easy and inexpensive to install—no operating expense—it rarely requires attention. First Cost—Last Cost—Risk of Faulty Design and Construction eliminated.

There are three distinct Kaustine Toilet types. We have the Standard, the Jerry, and the Hygeo. Each type is made in sizes to meet any requirement.

Construction

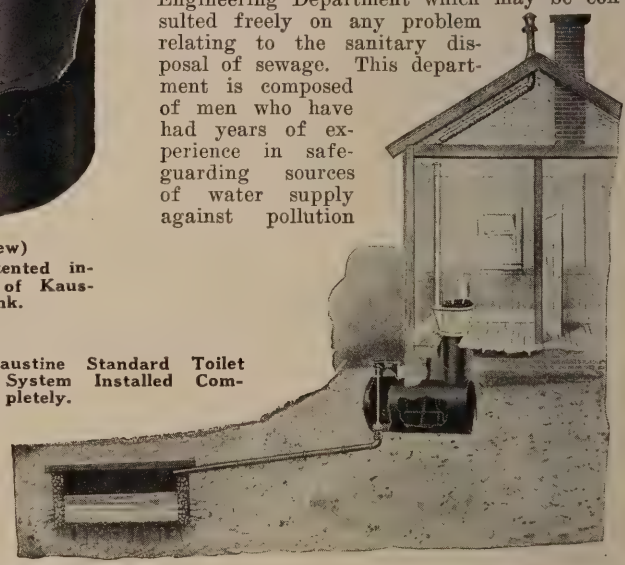
Kaustine Super-Septic Tanks are made from heavy gauge Armco "Ingot" Iron. electrically welded and double seamed, coated inside and out with Hermastic Enamel. Inlet and outlet connections are designed to receive either four-inch or six-inch pipe. A fourteen-inch manhole is provided in the cover above the inlet connection. To provide a water tight arrangement the tank cover is flanged. Baffles and interior equipment are made from heavy gauge Armco Iron, welded in place and securely braced. The overflow pipe is made from heavy gauge pipe casing. An essential gas area equal to one-fifth of the capacity of the tank is provided above the water line.

Write Kaustine Company, Inc., Buffalo, N. Y. for catalog and other special information about the Toilet construction.

Special processes are used in the manufacture of Kaustine Toilets and these processes have been worked out by a Kaustine Company mechanical engineer. The Kaustine Toilet has distinct and exclusive features.

Service

The Kaustine Company, Inc., maintain for the benefit of their customers a Service and Engineering Department which may be consulted freely on any problem relating to the sanitary disposal of sewage. This department is composed of men who have had years of experience in safeguarding sources of water supply against pollution by the installation of devices for the sanitary disposal of wastes, both industrial and domestic. Any difficult or unusual problem will have careful attention from this department. Knowledge and years of experience have enabled this Company to produce the finest and safest disposal system to be had, from the standpoint of scientific design, materials and workmanship.



Kaustine Standard Toilet System Installed Completely.

Catalogs and Booklets

Send for complete information on either Tanks or Toilets or both. Study Kaustine advantages and prices. Let our Engineering Department save you trouble and money. Thousands of satisfied users throughout the United States and Canada.

For further details and literature, write to: **KAUSTINE COMPANY, Inc.,** 200 Van Rensselaer St. Buffalo, N. Y.

Chem-o-let Self-Draining Chemical Indoor Toilets

Made by

WESTERN METAL SPECIALTY CO.

3020 Calhoun Place, Milwaukee, Wis.

Product:

This company manufactures the Chem-o-let Self-Draining Chemical Indoor Toilet—a convenient, sanitary, indoor toilet that displaces the inconvenient, unsanitary outhouse used in those districts where there are no sewers. Chem-o-let is particularly adapted for farm and suburban homes, summer cottages, auto tourist camps, golf courses, etc.



Convenient and Sanitary

NO EMPTYING BY HAND—Perfectly Sanitary:

The Chem-o-let is *self-draining* and is *thoroughly sanitary.* There is no disagreeable emptying by hand. The principle of sewage disposal is very simple and effective. The Lav-o-let chemical, mixed with water, dissolves and liquefies solids, at the same time sterilizing and deodorizing contents. When the large-capacity steel tank is full, it is automatically emptied by means of a valve at the bottom of the tank, operated by a key and control rod. Contents drain out into an old bottomless barrel, buried outside, and the effluent is absorbed by the soil.

Advantages:

Chem-o-let adds to the appearance, comfort and living conditions of any home or other place in which it is used. It prevents many sicknesses and disagreeable features now associated with houses having no sewage facilities. It is valuable enough to be installed as a permanent fixture and low enough in cost to install temporarily in districts where sewers will eventually be built.

Operation:

Two cupfuls of Lav-o-let chemical are mixed with two gallons of clean water and the solution is emptied into the tank. One half gallon of Lav-o-let with ordinary use, will last six months in a home of four to six persons at a cost of $2.50 per year, or about 21 cents per month, as one treatment of solution lasts for four or five weeks at which time the tank is automatically drained, as already described. After each draining (every four or five weeks) fresh chemical solution is placed in the tank.

Agitator Assures Thorough Chemical Treatment

Complete chemical treatment of all deposits is assured by a special automatic agitator, which is an exclusive Chem-o-let feature. This agitator is in the bottom of the tank and is connected to the lower side of the seat cover by means of a long rod and swivel. As the seat cover is lifted preparatory to using the Chem-o-let each time, the agitator is automatically put into operation, and stirs up the contents of the tank. resulting in complete and thorough chemical treatment.

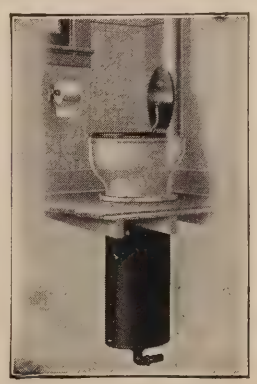
Costs Less Than Ordinary Outhouse

The total cost of a Chem-o-let installation including all materials, fixtures and labor is less than the cost of an ordinary outhouse. The cost of maintenance is only about $2.50 a year (for chemical).

Two Styles

Chem-o-let is furnished in two styles—the only difference being in the bowl. Type "A" has a glazed, white, vitreous china bowl, and type "F" a steel enameled bowl.

Type "A" Chem-o-let:



Type "A" Chem-o-let

Highly glazed white vitreous china bowl.

25-Gallon rust-resisting steel tank.

Oak finished seat and cover.

Galvanized steel adjustable roof safe.

Galvanized steel ventilator cap.

2-foot galvanized steel skirt pipe.

8 feet of 4-inch gray enameled vent piping.

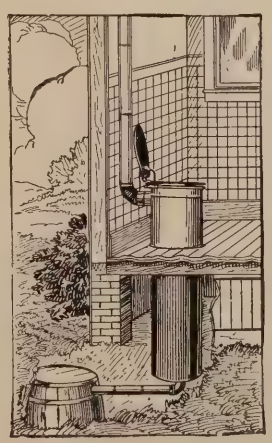
3-inch iron elbow.

Valve wrench.

½ gallon Lav-o-let chemical fluid.

Roll toilet paper and holder.

Tank dimensions from floor line (oval tank) 13 inches x 15 inches x 35 inches long. Diameter of valve opening 3 inches.



Type "F" Chem-o-let Showing method of installing and barrel buried in ground outside.

Type "F" Chem-o-let:

25-gallon rust resisting steel tank and steel enameled bowl combined.

Oak finished seat and cover.

Galvanized steel adjustable roof safe.

Galvanized steel ventilator cap.

2-foot galvanized steel skirt pipe.

8 feet of 4-inch gray enameled vent piping.

3-inch iron elbow.

Valve wrench.

½ gallon can of Lav-o-let Chemical fluid.

Roll of toilet paper and holder.

Tank dimensions from floor line 14 inches diameter and 34 inches long.

Diameter of valve opening 3 inches.

Easily Installed:

Anyone can install a Chem-o-let, as it requires no skilled labor, and full directions come with each toilet. Simply saw a hole in the floor for the tank. Cut a small hole through ceiling and roof for ventilating pipe. Run a pipe from bottom of tank to a barrel buried under the ground outside.

Ask your dealer first—or write us for booklet "B" giving complete information.

For further details and literature, write to: **WESTERN METAL SPECIALTY CO., MILWAUKEE, WIS.**

CRANE CO.

Plumbing and Heating Fixtures and Materials for Every Purpose

Crane Co. General Offices,

CRANE BUILDING, 836 So. Michigan Ave.

CHICAGO, ILL.

National Exhibit Rooms: Chicago, New York, Atlantic City, San Francisco,
Works: Chicago, Bridgeport, Birmingham, Chattanooga, Trenton and Montreal.

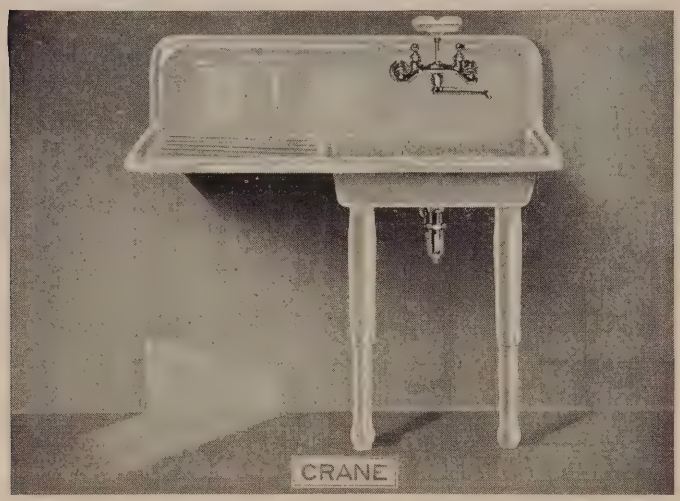
Branch Houses:

Aberdeen, S. D.
Albany, N. Y.
Asheville, N. C.
Atlanta, Ga.
Baltimore, Md.
Billings, Mont.
Birmingham, Ala.
Boston, Mass.
Bridgeport, Conn.
Brooklyn, N. Y.
Buffalo, N. Y.
Camden, N. J.
Cedar Rapids, Ia.
Charleston, W. Va.
Chattanooga, Tenn.
Chicago, Ill.
Cincinnati, Ohio
Davenport, Ia.
Des Moines, Ia.
Detroit, Mich.
Duluth, Minn.
East Chicago, Ind.
Evanston, Ill.
Evansville, Ind.
Fargo, N. D.
Ft. Smith, Ark.
Grand Rapids, Mich.
Great Falls, Mont.
Greenville, S. C.
Hartford, Conn.
Hibbing, Minn.
Hollywood, Calif.
Houston, Texas
Indianapolis, Ind.
Jacksonville, Fla.
Jersey City, N. J.
Kansas City, Mo.
Knoxville, Tenn.
Lexington, Ky.
Lima, Ohio
Little Rock, Ark.
Long Beach, Calif.
Los Angeles, Calif.
Madison, Wis.
Mankato, Minn.
Memphis, Tenn.
Miami, Fla.
Minneapolis, Minn.
Mobile, Ala.
Muskogee, Okla.
New Orleans, La.
New Haven, Conn.
Newark, N. J.
New York, N. Y.
Norfolk, Va.
Oakland, Calif.
Ogden, Utah
Oklahoma City, Okla.
Omaha, Neb.
Oshkosh, Wis.
Pasadena, Calif.
Philadelphia, Pa.
Phoenix, Ariz.
Pittsburgh, Pa.
Pocatello, Idaho.
Portland, Me.
Portland, Ore.
Providence, R. I.
Reading, Pa.
Reno, Nev.
Richmond, Va.
Rochester, N. Y.
Rockford, Ill.
Sacramento, Calif.
San Bernardino, Calif.
Salt Lake City, Utah.
San Diego, Calif.
San Francisco, Calif.
Santa Ana, Calif.
Savannah, Ga.
Seattle, Wash.
Shreveport, La.
Sioux City, Ia.
Sioux Falls, S. D.
South Bend, Ind.
Spokane, Wash.
Springfield, Ill.
Springfield, Mass.
Springfield, Mo.
St. Louis, Mo.
St. Paul, Minn.
Syracuse, N. Y.
Tacoma, Wash.
Tampa, Fla.
Terre Haute, Ind.
Trenton, N. J.
Tucson, Ariz.
Tulsa, Okla.
Washington, D. C.
Wichita, Kans.
Wilkes-Barre, Pa.
Winona, Minn.

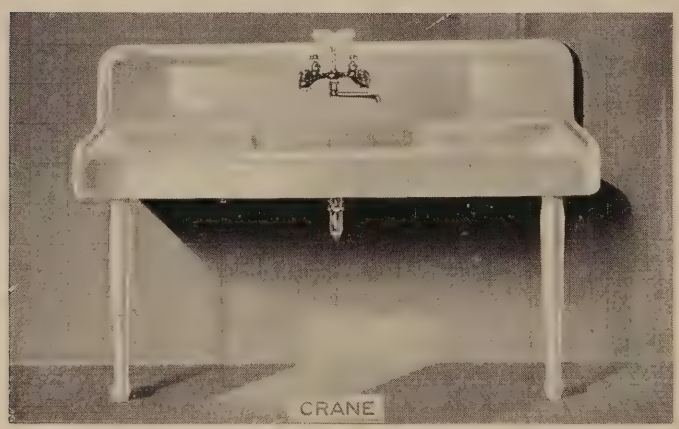
For Other Products See Pages as Follows: Water Heaters 417, Water Supply and Water Softeners 324

Crane One-Piece Kitchen Sinks

These Crane One-Piece Kitchen Sinks are of porcelain enamel on iron. They have 12-inch integral backs, wide drainboards and waste strainers, 1½ in. "p" trap with clean-out, and well escutcheon. All exposed metal parts are nickel-plated brass.



Crane Sink C-19250 is supported on legs adjustable for height and concealed hangers. *Agilis* quick compression faucets with adjustable flanges. In sizes 20 x 30, 22 x 32, and 22 x 36 inches.



Crane Sink C-19180 has double drainboards. Supported by enameled iron adjustable legs and concealed hangers. *Agilis* combination quick compression double faucet with swinging spout and indexed all-china handles. Sizes 22 x 36, 20 x 30, 22 x 30, and 22 x 32 inches.

Crane Mauretania Reverse-Trap Closet

Crane Mauretania Closet C-11010 has reverse trap syphon washdown action, made of twice-fired vitreous china. Low tank with supports. High pressure, bottom-supply, ball cock with integral stop. Flush valve. Double acting china operating lever. ⅜ inch iron pipe supply to floor, with floor escutcheon. 2 inch flush connection. Birch mahogany finish seat and cover with bar hinge and rubber bumpers. Brass floor screws with cap nuts and washers. All exposed metal parts are nickel-plated brass.



Crane Purus Syphon Jet Closet

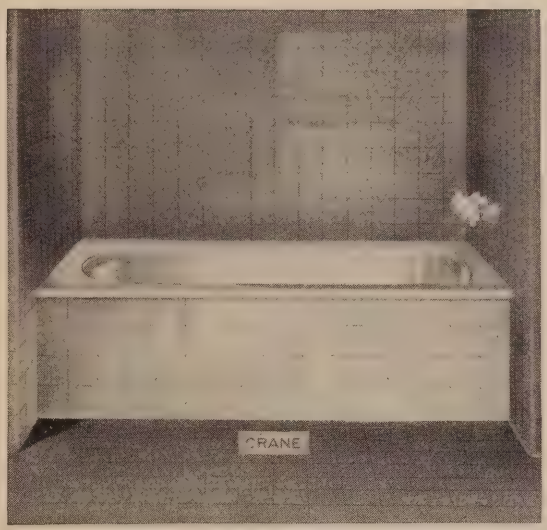


Crane *Purus* Syphon Jet Closet, C-10502, of twice-fired vitreous china. Extended lip. Crane water-controlled flushing valve. Ebony finish, open-front serpentine "whalebonite" seat. Rubber seat bumper. Floor flange gasket, bolts have enameled bolt caps.



Crane Nova Lavatory
C 402-C1

Crane Nova Lavatory: C 402 - C1 — Of twice fired vitreous china with integral spout, overflow and splash lip. Has a Securo quick-draining, direct-lift waste with china knob and china escutcheon. Supply valves are compression with renewable seats, four-arm indexed all-china handles and china escutcheons. Equipped with 1½ inch "p" trap with cleanout and china escutcheons. All exposed metal parts are nickel plated brass. Dimensions: Slab, 24x30 inches. Basin, 13x18x6½ inches. Slab may be 21x24 or 22x27 inches.



Crane Tarnia Recess Bath
C 3336-A

Crane Tarnia Recess Bath: C 3336-A—Of porcelain enamel on iron. Built in one piece. Has slope end. Is reversible. Equipped with legs and an outlet. Arranged for tiled front panel. Has concealed combination compression overrim spout supply and standing waste fixture at end; with renewable seats, four-arm, indexed, all-china handles and china escutcheons, ½ inch Crane concealed mixing valve shower with renewable seats, china lever handle and china escutcheon, 5 inch cast brass shower head with removable face, adjustable ball joint. All valves may be rewashered from face of wall. Nominal sizes 5, 5½ and 6 feet.



Crane Majestic Pedestal
Lavatory C 2992-M1

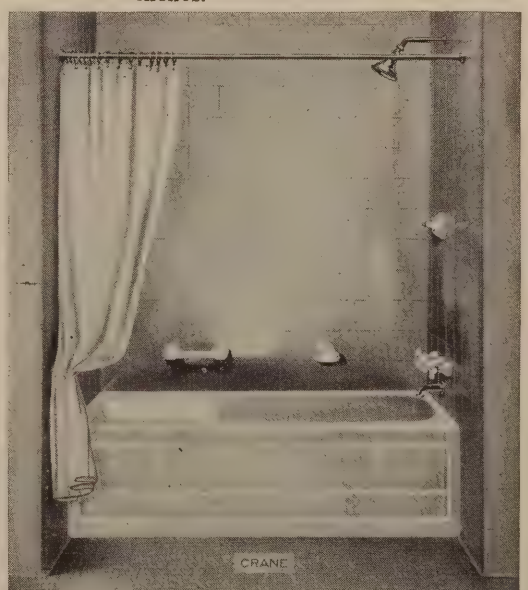
Crane Majestic Pedestal Lavatory: C 2992-M1—Of porcelain enamel on iron. Has a Securo combination compression supply and quick-draining, direct lift waste with shampoo connection, renewable seats, four arm indexed all-china handles and china escutcheon. Supplies to wall have compression stops with wheel handles. Equipped with 1½ inch cast brass "P" trap with cleanout and wall escutcheon. All exposed metal parts are nickel plated brass. Dimensions: Slab, 20x24 inches. Basin 12x16½ inches. Slab may be 22x27 inches.



Crane Corwith Bath: C 3284-RA—For right hand corner. Concealed combination compression top nozzle supply and standing waste fixture at right hand end. Concealed stops with screw driver slots and china escutcheons.



Crane Shower: C 4400 B—With concealed compression operating valves which may be re-washered from the face of wall. All exposed metal parts are nickel plated brass.



Crone Corwith Recess Bath: C 3308-RA—With outlet in right hand end. Has concealed combination compression overrim spout supply and standing waste fixture at right hand end.

Crane Corwith Bath: Of uniform cream-white enamel on iron is given added interest by the graceful modeling of its lustrous surfaces. Instead of the usual flat apron on the exposed front or front and end, the Corwith's side and end are moulded in four planes, each plane receding slightly from the one beneath. The play of light on these surfaces gives the Corwith a character lacking in plainer fixtures. Waste barrel is 2 inches. Renewable-seat valves are ½ inch, four-arm indexed all-china handles with china escutcheons. The shower equipment consists of a ½-inch Crane concealed mixing valve with renewable seats, china lever handle, china escutcheon, 5-inch cast brass shower head with removable face, adjustable ball joint and ½ inch iron pipe size and weight bent arm to wall with metal wall flange. Adjustable curtain rod is 1⅛ inch outside diameter with snap hooks and 10¼ ounce white duck triple tuck curtain with grommets and hold back hook. All exposed metal parts are nickel plated brass. All valves may be rewashered from-face of wall. Nominal sizes are 4½, 5, 5½ and 6 feet.

Te-Pe-Co All-Clay Plumbing Fixtures

For Bathroom, Kitchen and Laundry

Manufactured by

THE TRENTON POTTERIES CO.

Trenton, N. J.

Complete Line

The Te-pe-co line does not only consist of a few baths, lavatories, closet combinations, sinks and laundry trays, but also includes every type of fixture required in apartments, hotels, schools, office buildings, factories and hospitals.

Vitreous China and Porcelain

Te-pe-co fixtures are made of vitreous china and porcelain, which are the only materials that will withstand every test required of a truly sanitary fixture. They are clay through and through. No iron or other metal is used. Therefore, there can be no rust, corrosion or peeling. They have the same hard, glassy, white surface as the finest table china. No acids, medicines or anything used in the bathroom, kitchen or laundry can penetrate or stain their beautiful lustrous surface.

Superior Quality

Substantiating every possible laboratory test, years of actual service has proven that Te-pe-co fixtures are of superior quality. The fact that many leading architects continue to specify them for the finest buildings in the country as they have for years past, is evidence of their durability.

Improved Design

In keeping with their superior quality Te-pe-co fixtures embody every refinement and improvement in design known to modern day sanitation and possess many exclusive features that afford greater convenience than those of the ordinary kind. While void of ornamentation, they are, nevertheless, beautiful in their very simplicity and clean-cutness of line. They combine beauty, utility and durability.

Choice of Size and Design

Te-pe-co baths, lavatories, water closets, sinks, etc., are made in various patterns and sizes and offer the widest latitude in choice of fixtures to meet the different building requirements.

Trade Mark Guarantee

Te-pe-co fixtures may be identified by the makers trade mark, which is indelibly stamped on every piece. It is your guarantee of the highest quality backed by a manufacturer who assumes all responsibility for their product and values their reputation of quality for which they are renowned.

Method of Marketing

Owing to the nature of our product and the necessity of careful installation by experienced men, we have found that we can serve the consumer or builder best by marketing through a well informed local distributor and dependable plumbers. To secure Te-pe-co fixtures it is only necessary to inquire of your plumber or write us direct.

Bathroom Plan Book

To assist the home builder in planning their bathroom and selecting such fixtures as will meet their requirements to the best advantage, we have prepared a bathroom plan book which contains considerable information pertaining to plumbing fixtures that is of value to anyone who is interested in the same. We shall be glad to forward a copy on request.



PLATE NO. 2605-R

Quiet "Siwelclo" Vitreous china closet combination, complete with Te-pe-co Tank fittings, china flush connection, and all white seat.

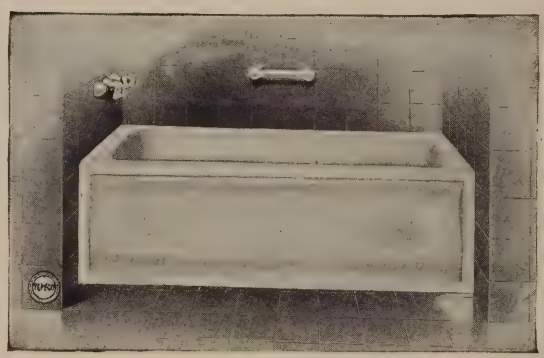


PLATE NO. 2023-R

"Ambassador" porcelain recess bath complete with concealed combination supply and waste fitting at left hand end. Also made with fittings at right hand end.
Sizes 5'0"—5'6"—6'0" x 29" wide



PLATE NO. 2110-R

"Tuxedo" vitreous china lavatory with integral china nozzle and china pedestal, complete with all white combination supply and pop-up waste fittings, N. P. brass supply pipes and trap to wall.
Sizes 30 x 24—27 x 22—24 x 20

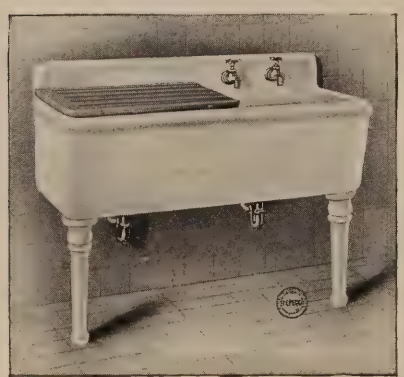


PLATE NO. 3567-R

"Te-pe-co" porcelain combination sink and laundry tray with N. P. brass compression cocks and tray bibbs, N. P. brass sink strainer, tray plug and coupling, 1½" N. P. brass traps to wall, and ash drainboard. Also made with tray and drain on right hand end.
Sizes 50 x 23—42 x 23

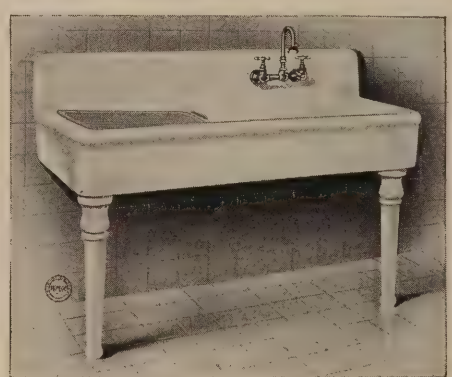


PLATE NO. 3402-R

"Te-pe-co" porcelain kitchen sink with integral drainboard, with N. P. Brass combination supply fitting with swinging gooseneck nozzle, N. P. brass strainer and 1½" N. P. brass trap to wall. Rubber drain mat.
Size 62 x 26—52 x 26



PLATE NO. 3571-R

"Te-pe-co" porcelain two-part laundry tray with N. P. brass tray bibbs, N. P. brass twin waste connection and 1½" N. P. brass trap to wall.
Sizes 46½ x 25

For further details and literature, write **THE TRENTON POTTERIES CO., TRENTON, N. J.**

CHURCH SANI-WHITE TOILET SEATS

Manufactured by

C. F. CHURCH MFG. CO.

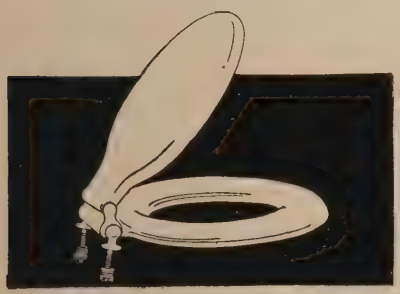
Holyoke, Mass.

SERVICE
New York
Minneapolis
Philadelphia
Kansas City, Mo.
Detroit
Montreal
Boston
St. Louis
San Francisco
Los Angeles

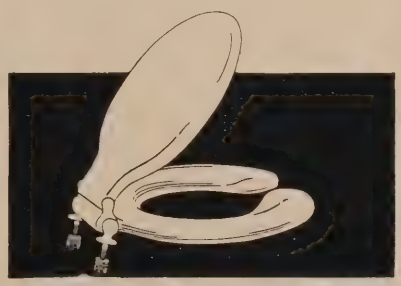
Church Seats
sani-white

LOOK FOR THIS NAME ON UNDER-SIDE OF SEAT

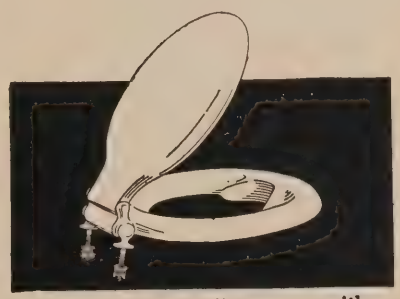
SERVICE
Bayonne, N. J.
Miami, Florida
Tampa, Florida
Chicago
Pittsburgh
Oklahoma City
Stamford, Conn.
Atlanta, Ga.
New Orleans
Vancouver, B. C.



No. 142 Plain pattern for regular bowl. All white. No screws, no nuts, no bolts appearing anywhere above the surface of the bowl. White cushion bar bumpers.



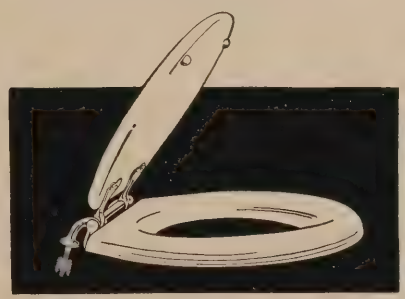
No. 162 Open Front Full Saddle Pattern for regular bowl. No exposed metal. White cushion bar bumpers.



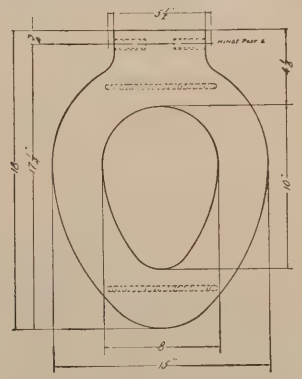
No. 102 Full saddle pattern with sanitary lip. No exposed metal. White cushion bar bumpers.



No. 150 All White Church Sani-white seat with white cushion bar bumpers. Same as No. 142 but without cover. No exposed metal.



No. 425 Church Sani-white seat and cover; plain pattern for regular bowl, nickel plated brass hinge and white cushion bar bumpers.



Dimensions of Model 142

A Bathroom Luxury Everyone Can Afford

IF YOU lived in one of those palatial apartments on Park Avenue, in New York City, where you have to pay $5,000 to $12,000 a year rent, you still couldn't have a better toilet seat in your bathroom than the Church Sani-white Toilet Seat which you can afford to have right now.

Adds New Beauty

The improvement in appearance made by a spotlessly clean, all white toilet seat is certainly surprising. Its beauty and refinement are qualities every woman wants in her bathroom—a room she can be proud to have guests use.

The Church Toilet Seat is all-white and stays white permanently—a sanitary seat that washes as easily as porcelain. Its white surface is neither varnish, paint nor enamel, but a durable sheathing as handsome as ivory. It won't crack, splinter, chip, wear off or stain. Can be installed on your toilet in a few minutes and easily taken off and reinstalled if you move to another house or apartment.

Send for "An Easy Way to Make a Bathroom More Attractive"

This is the title of an attractively illustrated little book of sixteen pages, just off the press, that tells the story of the interesting way in which one woman discovered how to make her bathroom more attractive. If you have sometimes wished that your own bathroom looked a little more attractive, this book will certainly be of value to you, and it is FREE. Send for a copy, together with a free sample of Sani-white Sheathing. C. F. Church Mfg. Co., Dept. M-1, Holyoke, Mass.

For further details and literature, write to: C. F. CHURCH MFG. CO., Dept. M-1, Holyoke, Mass.

For further details and literature, write to: **C. F. CHURCH MFG. CO., Dept. M-1, Holyoke, Mass.**

Standardized Unit CHICAGO FAUCETS *Renewable Wearing Parts*

NEW YORK
STAMFORD, CONN.
PHILADELPHIA
PITTSBURGH
DETROIT

Made By

THE CHICAGO FAUCET COMPANY

2700-2722 North Crawford Ave., Chicago

MINNEAPOLIS
DENVER
LOS ANGELES
DES MOINES
ASHEVILLE, N. C.
KANSAS CITY, MO.

Products:

This company manufactures Faucets for every service, sold under the trade-names of QUATURN, a quick-compression faucet; and SEL-KLO, a self-closing faucet. Either of them is readily convertible to the opposite type without disturbing the faucet body. Also manufactures Drinking Fountains and Bubblers.

Advantages:

In compression type faucets the Seat Washer is usually the first part to wear out, then the Seat, next the Compression Thread on stem and in body. In ordinary faucets, the Seat is usually a little ridge of metal machined on body casting of faucet. When this is worn the faucet must be scrapped.

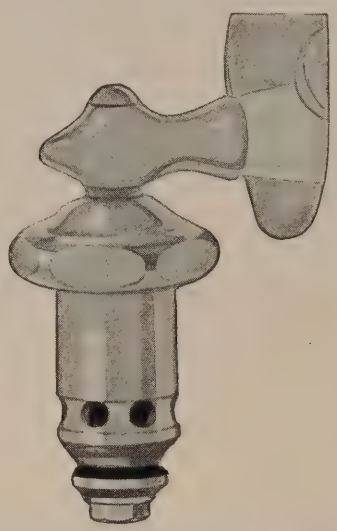
In Chicago Faucets—Quaturn and Sel-Klo—the seat is **not** a part of the body—it is not even fastened to the body, but is a stamping from sheet phosphor bronze which slips into its place on the end of the sleeve just as easily as the seat washer goes on the end of the stem.

The Thread is inside a sleeve which is economically and easily replaced when worn out.

All wearing parts are renewable, and form a standardized unit easily and economically obtained from the plumber or supply house.

Faucet Body:

The faucet body is merely a rugged shell or container for the reception of the working unit and is made in many attractive designs and finishes to meet every faucet need. There is no wear of any kind on the body; consequently it will never have to be replaced. It is good for the life of the house.



This is the standardized working unit of Quaturn and Sel-Klo faucets. Bodies vary according to use. Handles vary according to taste. The unit is always the same.

Easily Convertible:

As one working unit fits both it is a simple matter to convert the Quaturn (quick compression faucet) into the Sel-Klo (self-closing faucet) and experienced contractors and builders will quickly recognize this advantage.

Standardized Unit Construction:

Chicago faucets—Quaturn and Sel-Klo—are standardized—one working unit fits them all. In large buildings reserve units are carried in stock (like electric light bulbs) and when a faucet leaks a reserve unit is put in place and the leaky unit held until convenient to replace it.

Catalog:

Our profusely illustrated catalog will be sent to any contractor or builder who wants to know more about Chicago Faucets and their adaptability for use in the modern home.

Handles:

Handles are furnished in various designs and materials to meet all requirements and individual tastes.

Close with the Pressure:

Quaturn Faucets close with the pressure—not against it. People who live in high-pressure territories, or where an occasional high fire pressure is applied, say that they will not use a quick compression faucet that closes against the pressure.

Protected by United States and Canadian patents, issued & pending.

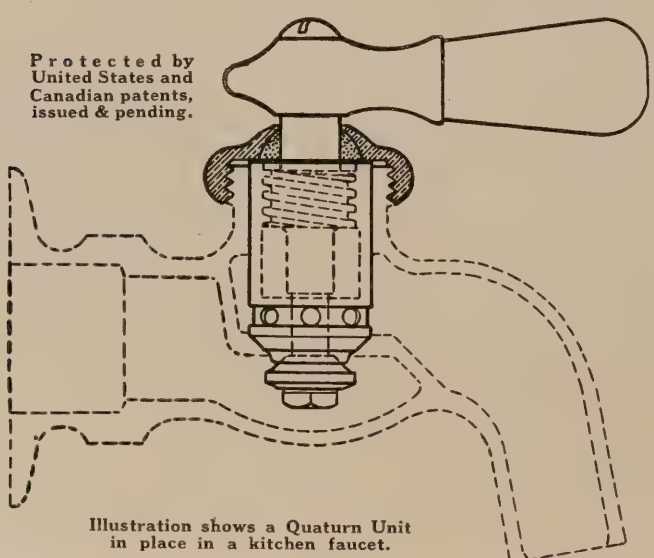
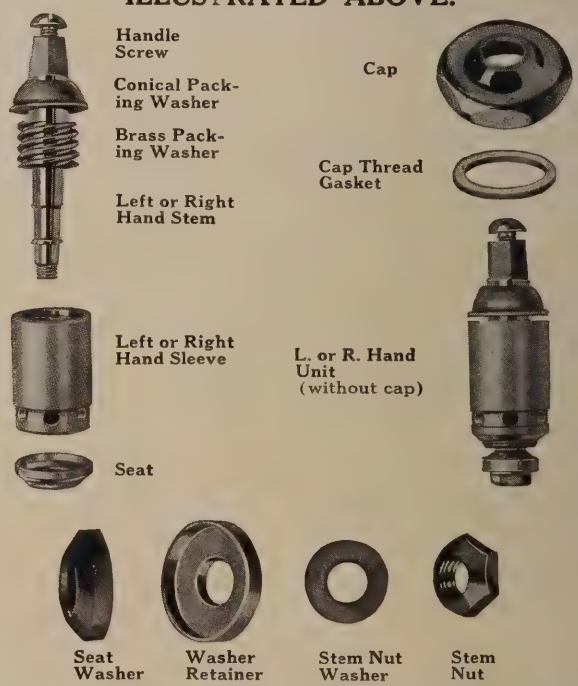


Illustration shows a Quaturn Unit in place in a kitchen faucet.

THESE PARTS ASSEMBLED MAKE THE COMPLETE WORKING UNIT ILLUSTRATED ABOVE.



For further details and literature, write to: **THE CHICAGO FAUCET COMPANY, Chicago.**

Mueller Faucets and Plumbing Goods

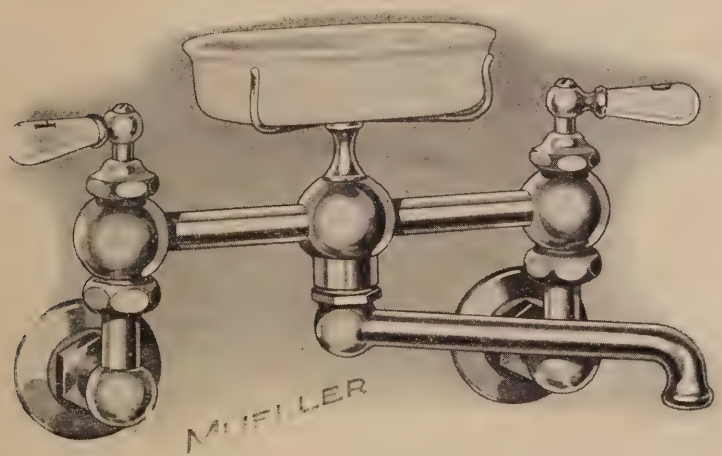
Manufactured by

MUELLER CO.

DECATUR, ILLINOIS

Branches: New York, San Francisco, Los Angeles.

MUELLER Combination Sink Faucet



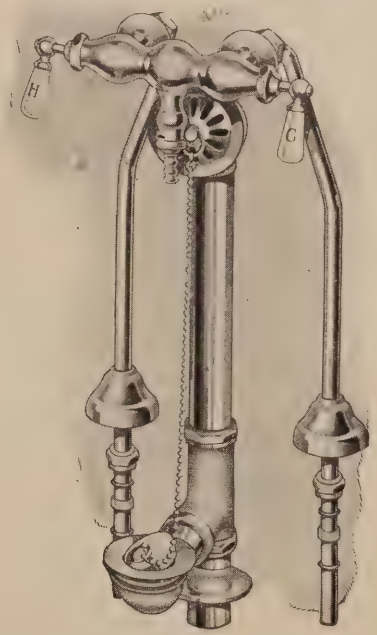
G-2081—is an attractive popular combination faucet, with swinging spout, pedestal china soap dish and indexed china handles. Finished in brilliant, heavy nickel plate. Corrugated stem provides for keeping handles in proper position. Soap dish has drain opening and can be removed for cleaning.

MUELLER Compression Lavatory Faucet



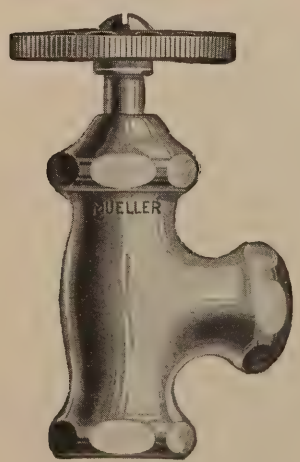
G-3120 is a handsome compression lavatory faucet, heavy nickel plated, with pleasing lines that harmonize with every fixture. Has china indexed top lever handle, and is furnished complete with nut and tailpiece. The corrugated steel washer grips the under side of the lavatory and holds the faucet rigidly in place.

Mueller Complete Trimmings for Roll Rim Tubs—Fitsemall Supplies



Combination G-5710 consists of bath faucet (G-5500), drain and overflow (G-5810), and Fitsemall Supplies (G-6760). Finished nickel plated. Has china indexed side lever handles. Fitsemall supplies are $\frac{2}{16}$ inches O. D. Inlet slip joint nuts for $\frac{1}{2}$ inch I. P. Center measurement of bath faucet inlets is $3\frac{3}{8}$ inches. Complete trimming packed in one carton.

MUELLER Compression Fixture Supply Stops



G-8010 is a compression fixture supply stop suitable for use in connection with every type of fixture supplied. Permits shutting off the water to any individual fixture. Finished nickel plated. Has angle wheel handle. Made in sizes $\frac{3}{8}$ inch and $\frac{1}{2}$ inch.

For further details and literature, write to: **MUELLER CO., Decatur, Illinois**

ALBERENE STONE LAUNDRY and KITCHEN FIXTURES

ALBERENE STONE COMPANY

Main Office
153 W. 23rd Street, New York

Quarries and Mills
Schuyler, Va.

BRANCHES

Baltimore, Md. Boston, Mass. Buffalo, N. Y. Chicago, Ill. Cleveland, Ohio Newark, N. J.
Philadelphia, Pa. Pittsburgh, Pa. Richmond, Va.

What Alberene Stone Is:

Alberene Stone is a natural quarried stone—not a composition or an imitation—with the time-proof permanence of the hills from which it comes. It is a pleasing light gray in color, blending harmoniously with any surroundings. It is quarried in large blocks, sawed into slabs, rubbed to a satin-like finish, and fabricated and assembled in many forms for many purposes. It is hard and dense—it is non-absorbent to moisture, non-staining, resistant to all chemical action—it is non-chipping, non-flaking, non-scaling.

TRADE MARK

Alberene Stone Laundry Trays and Sinks:

These fixtures are made up from selected slabs of Alberene Stone, with tongue-and-groove joints held by concealed bolts and water-proof cement, in units having the solidity and permanence of one-piece construction. There are absolutely no cracks or crevices in which dirt or germs might lodge. Being absolutely non-absorbent and having a smooth surface easily kept clean, they are always dry, odorless and absolutely sanitary. Simplicity of line and correct proportions make them attractive and equally adapted to bungalow, apartment or mansion.

Fittings, Heights, Etc.:

Alberene Stone Trays and Sinks can be had with several different styles of legs or standards. Standard heights 16″ and 24″; special adjustable legs can be furnished if specified. Faucets and fittings are not supplied with the tubs, but any of the standard styles in these can be provided by the installing plumber.

Sizes and Styles:

There are 12 standard styles in Alberene Stone Laundry Trays—18 standard styles in sinks—and 15 standard styles in combination Tray and Sink Fixtures. The range of sizes in each of these 45 styles covers every requirement of taste or convenience. Options in most of the standard styles afford a still greater range of choice. Only a few of the more popular styles are here illustrated. The dimensions given are the outside measurements, in all cases. A complete Style Book giving illustrations, sizes and options in all styles, will be sent on request.

Distribution and Delivery:

Plumbing jobbers everywhere carry Alberene Stone Trays and Sinks in stock, in the styles and sizes for which the greatest demand exists. These jobber stocks are supplemented by larger and more diversified stocks at factory and branch warehouses. Prompt delivery can usually be made in the most sizes and styles.

Responsibility:

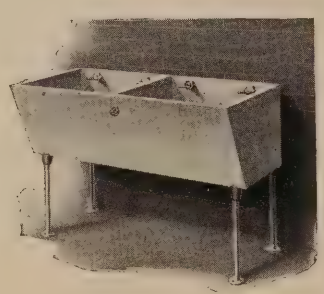
Alberene Stone has been quarried and fabricated for over 40 years. The company is the oldest and largest producer of these natural stone specialties in the world, and owns the only known deposit of stone of the physical and chemical and structural characteristics of Alberene Stone. Millions of Alberene Stone Trays and Sinks are in use today. The trademark placed on every genuine Alberene Stone fixture is a guarantee of perfect material and workmanship.

Other Alberene Stone Products:

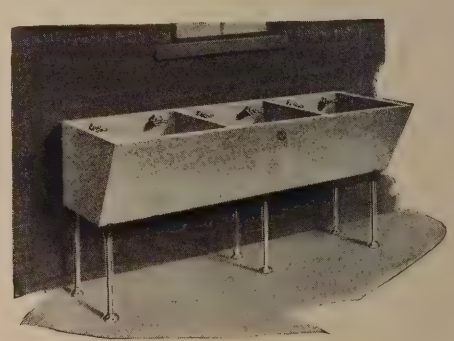
The unique physical properties of Alberene Stone give it distinct value in the home for range hearths and backs, fire-place hearths and linings, radiator slabs and drips, garden furniture, garden flagging. In schools, hospitals and business buildings it is widely used for stair treads and landings. While as a material for laboratory equipment in schools, colleges, hospitals, etc. Alberene Stone is generally recognized as the material without a peer.



STYLE 101A
Single-compartment Laundry Tray, with cover; supplied also without cover as Style 101: 3 sizes—24″, 30″, 36″ x 24″, 16″ deep.

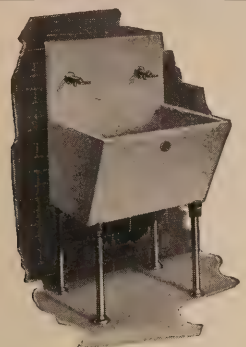


STYLE 104
Two-compartment Laundry Tray, without cover; supplied also with galvanized covers; 6 sizes — 42″, 44″, 46″, 48″, 54″, 60″ x 24″, 16″ deep.

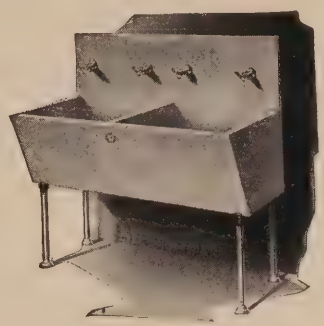


STYLE 108
Three-compartment Laundry Tray, without covers; supplied also with galvanized covers; 5 sizes—72″, 78″, 84″, 90″, 96″ x 24″, 16″ deep.

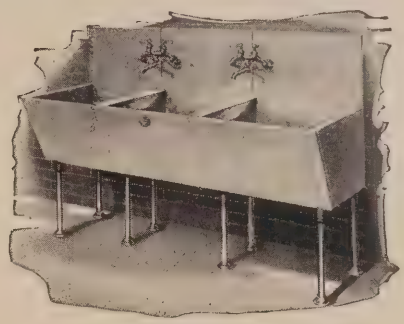
For further details and literature, write to: **ALBERENE STONE COMPANY** 153 W. 23rd St., New York or nearest branch



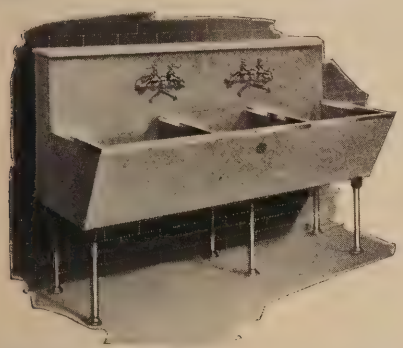
Style 102—Single-compartment Laundry Tray, with integral high back, 3 sizes—24″, 30″, 36″ x 24″, 16″ deep.



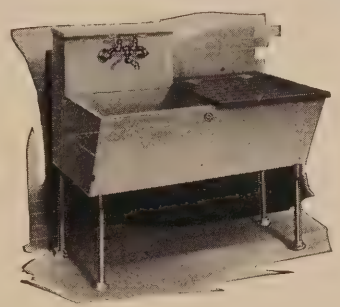
Style 105—Two-compartment Laundry Tray, with integral high back; 3 sizes—48″, 54″, 60″ x 24″, 16″ deep.



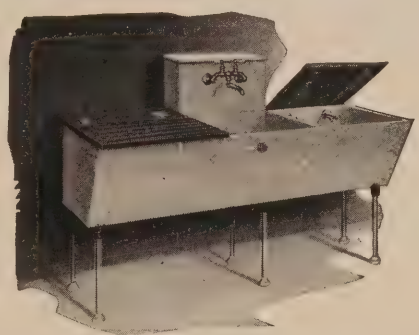
Style 116BB—Three-Tray Combination Fixture, with integral high back; 9 sizes, made up of various combinations of standard style 102 Trays.



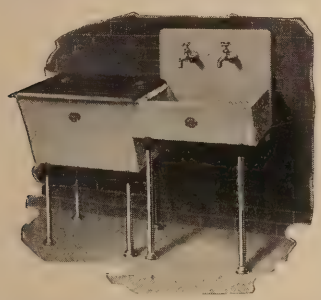
Style 110—Three-compartment Laundry Tray with integral high back, shelf and return ends; 5 sizes, 72″, 78″, 84″, 90″, 96″ x 24″, 16″ deep.



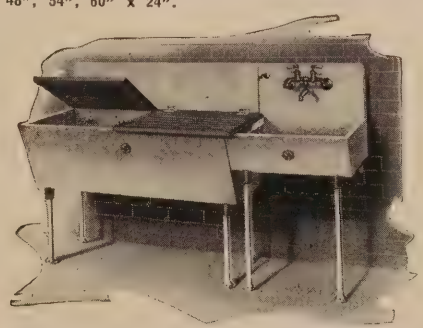
Style 136B—Combination Laundry Tray and Sink, right or left hand as ordered, with wood drainboard; sink with high back, shelf and return ends; 3 sizes, 48″, 54″, 60″ x 24″.



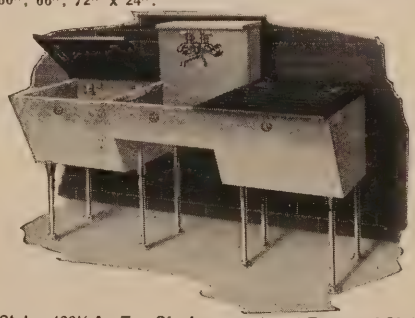
Style 137B—Combination Laundry Trays and Sink; right hand, left hand, or center sink, with wood drainboards; sink with high back, shelf and return ends; 3 sizes, 60″, 66″, 72″ x 24″.



Style 138—Single Tray and Sink in combination, made up of standard single units; right or left hand as ordered; sink with integral high back, tray with wood drainboard; 4 sizes, 48″ to 54″ x 24″.



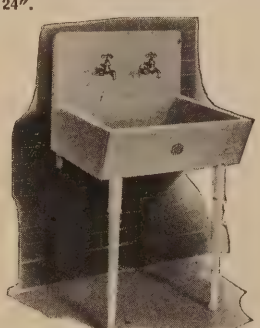
Style 131B—Two-compartment Tray and Sink in combination; integral high backs; trays with wood drainboards; right or left hand as ordered; 5 sizes, 72″, to 90″ x 24″.



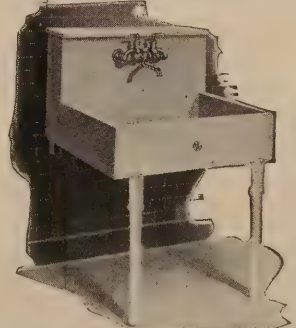
Style 138½A—Two Single-compartment Trays and Sink in combination; right hand, left hand or center sink, with wood drainboards; sink with integral back, shelf and return ends; 4 sizes, 72″ to 90″ x 24″.



Style 146—Kitchen Sink, straight front, no back; 9 sizes, 8″ deep, width 18″ to 24″, length 24″ to 48″; furnished also with integral high back, same sizes, as Style 147.



Style 147B—Kitchen Sink, bevel front, integral high back; 9 sizes, 8″ deep, width, 18″ to 24″, length 24″ to 48″ furnished also without high back, same sizes, as Style 146E.



Style 148—Kitchen Sink, straight front, integral high back with shelf and return ends; 9 sizes, 8″ deep, width 18″ to 24″, length 24″ to 48″.



Style 150QC—Kitchen Sink with Stone Drainboard, corner mounting, integral high back and end; 9 sizes, width 18″ to 24″, length 48″ to 72″, 8″ deep; right or left hand as ordered.



Style 150Q—Kitchen Sink with Stone Drainboard, open mounting; integral high back; right or left hand; 9 sizes, width 18″ to 24″, length 48″ to 72″, 8″ deep.

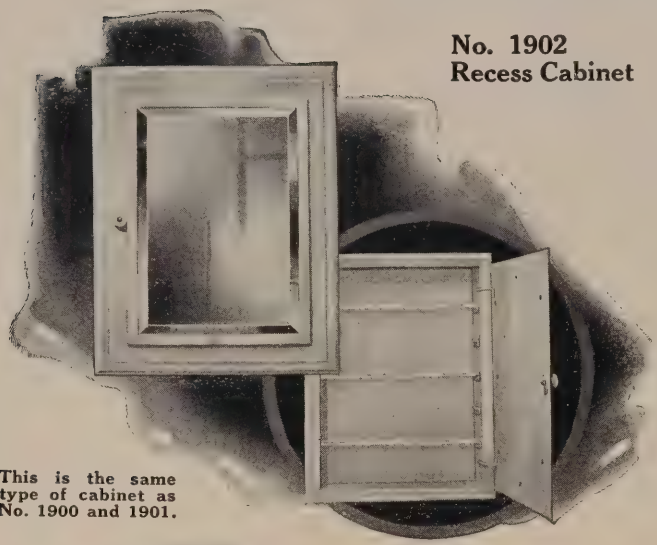


Style 160—Kitchen Sink with Double Stone Drainboard; high back with shelf and return ends; 9 sizes, width 18″ to 24″, length 60″ to 84″, depth 8″, brass rims illustrated furnished only on order, at extra cost; supplied in same sizes with plain high back.

Columbia White Enameled Steel Medicine Cabinets

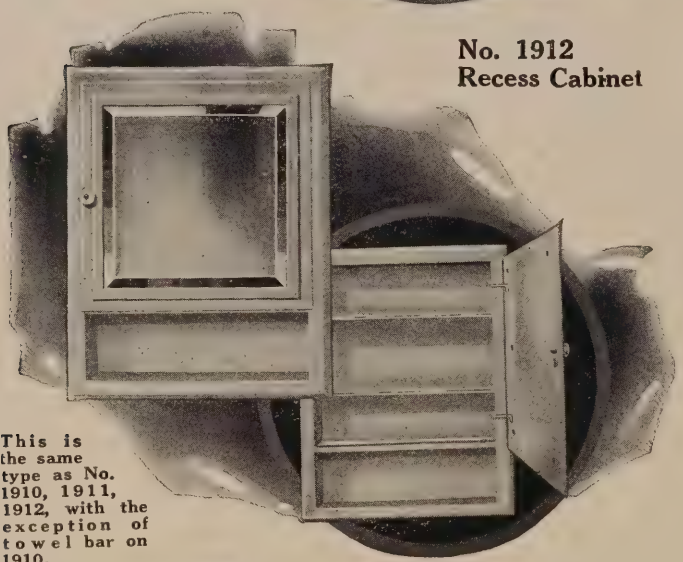
Manufactured by

COLUMBIA METAL BOX COMPANY
226 EAST 144th STREET, NEW YORK



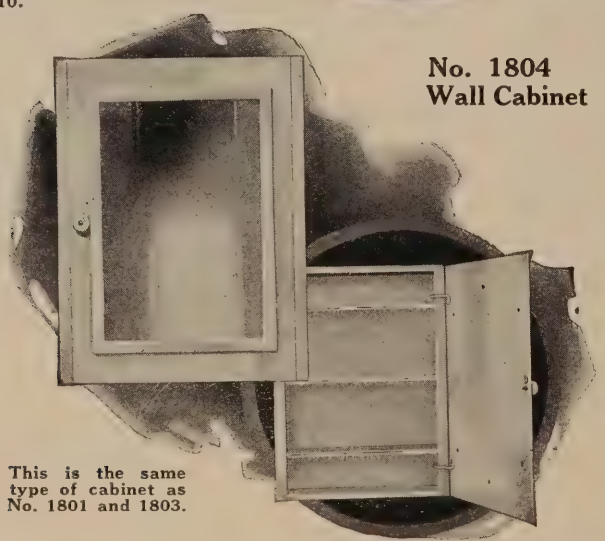
No. 1902
Recess Cabinet

This is the same type of cabinet as No. 1900 and 1901.



No. 1912
Recess Cabinet

This is the same type as No. 1910, 1911, 1912, with the exception of towel bar on 1910.



No. 1804
Wall Cabinet

This is the same type of cabinet as No. 1801 and 1803.

Products

White Enameled Steel Medicine Cabinets, Recess and Wall Types. Also Sanitary Sink Cabinets, Garbage Can Receptacles, and Radiator Enclosure Cabinets.

Reasonably Priced

The Columbia Metal Box Company has standardized on a few sizes and styles which they produce in large quantities thereby enabling them to sell these cabinets at a price very close to that of the wood cabinet.

Advantages

Unlike the wooden cabinet, there are no glued joints to warp and crack open. It is sanitary in every respect. The baked on white enamel finish will retain its lustrous whiteness for years undimmed and unmarred by moisture attacks or frequent cleaning with soap and water.

Construction

These cabinets should not be confused with light gauge steel cabinets. The cabinet proper is stamped of heavy No. 20 U. S. Gauge Furniture Steel; the door is stamped of No. 16 U. S. Gauge Furniture Steel. There are no seams or cracks. All joints are electrically welded.

Recess Type Cabinets

There is a growing demand for the flush type cabinet as it presents a really beautiful appearance in the bathroom. This type is made in two styles with and without the open shelf at the bottom. The various sizes with equipment follow:

No. 1900—Overall dimensions are 17½" wide; 21½" high; 4¼" deep. Plain or beveled plate glass mirror 10" by 14". Two plate glass shelves. Net weight 20 lbs. Size of hole in wall 14½" wide by 18½" high by 2¾" deep.

No. 1901—Overall dimensions are 19½" wide; 23½" high; 4¼" deep. Beveled plate glass mirror 12" by 16". Two plate glass shelves. Net weight 22 lbs. Size of hole in wall 16½" wide by 20½" high by 2¾" deep.

No. 1902—Overall dimensions are 21½" wide 27½" high; 4¼" deep. Beveled plate glass mirror 14" by 20". Three plate glass shelves. Net weight 30 lbs. Size of hole in wall is 18½" wide by 24½" high by 2¾" deep.

With open shelf at bottom

This style of cabinet makes a splendid installation for the guest bathroom. The open shelf is very convenient for the guest's toilet necessities. The No. 1910 model is the only model furnished with a towel bar at the bottom in addition to the open shelf.

No. 1910—(with towel bar) Overall dimensions are 17½" wide; 23½" high; 4¼" deep. Beveled plate glass mirror is 12" by 12". Two plate glass shelves. Net weight 23 lbs. Size of hole in wall 14½" wide by 20½" high by 2¾" deep.

No. 1911—Overall dimensions are 19½" wide; 25½" high; 4¼" deep. Beveled plate glass mirror 14" by 14". Two plate glass shelves. Net weight 25 lbs. Size of hole in wall 16½" wide by 22½" high by 2¾" deep.

No. 1912—Overall dimensions are 21½" wide; 27½" high; 4¼" deep. Beveled plate glass mirror 16" by 16". Three plate glass shelves. Net weight 29 lbs. Size of hole in wall 8½" wide by 24½" high by 2¾" deep.

Wall Type Cabinets

These cabinets are made for surface mounting upon the wall where it is not possible or desirable to use a Recess Type Cabinet.

No. 1801—Overall dimensions are 16" wide; 20" high; 4¼" deep. Plain plate glass mirror 10" by 14". Two plate glass shelves. Net weight 21 lbs.

No. 1803—Overall dimensions are 18" wide; 22" high; 4¼" deep. Beveled plate glass mirror 12" by 16". Two plate glass shelves. Net weight 23 lbs.

No. 1804—Overall dimensions are 20" wide; 26" high; 4¼" deep. Beveled plate glass mirror 14" by 20". Three plate glass shelves. Net weight 32 lbs.

For further details and literature, write to: **COLUMBIA METAL BOX COMPANY** 226 East 144th St. NEW YORK CITY

Hess Snow White Steel Medicine Cabinets and Lavatory Mirrors

Manufactured by

HESS WARMING & VENTILATING CO.

1207-1227 So. Western Ave., Chicago, Ill.

For Hess Welded Steel Furnaces see page 362

Materials and Construction

Made of smooth, soft steel, enameled inside and out with best white varnish enamel baked in ovens.

The mirror is of the best American plate glass, beveled or plain. The door closes flush with the front in a rabbeted opening. Furnished with brass nickelplated hinges and turn catch.

Shelves adjustable, of white enameled steel or clear, polished plate glass.

The recessed cabinet (styles E and F) recesses 4¼ in. back of finished face of plaster and projects 1¼ in. Special grounds and methods of attaching are described in free booklet.

Another style, H, similar to F, does not recess, but attaches to face of wall.

Binding Guarantee

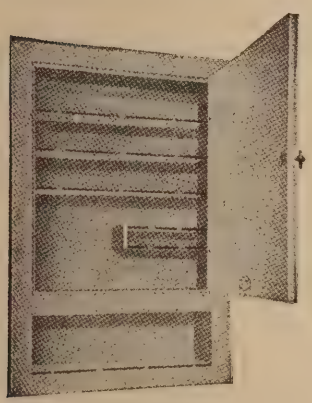
Our Guarantee specifies all cabinets to be made by Hess Warming & Ventilating Co. and to bear the trade-mark Hess. The enamel on such goods is guaranteed not to crack, flake nor blister (external violence excepted). Our trade-mark is a promise to restore any enamel showing such defect or to replace with a new cabinet, without expense to the purchaser.

Lavatory Mirrors

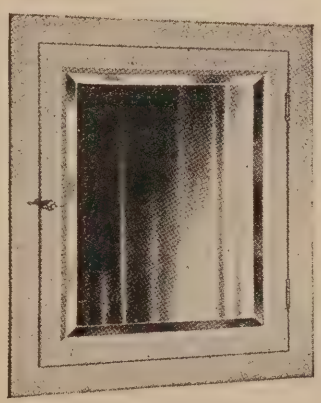
Similar in construction to mirror doors of the cabinets. Made with or without shelves and towel bars. Five sizes.

Five sizes in each style.

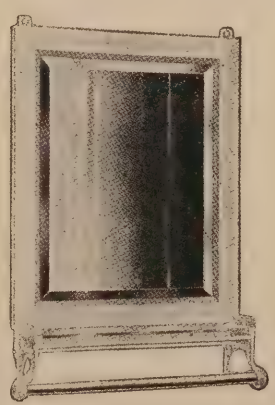
Illustrated booklet and price list on request.



STYLE "E" CABINET TO RECESS



STYLE "F" CABINET TO RECESS



STYLE "A" MIRROR



STYLE "AA" LAVATORY MIRROR
With open pocket shelf below

HESS STEEL MEDICINE CABINETS

No.	Extreme outside dimensions, in.	Inside dimensions, in.	Wall opening required, 4¼ in. deep	Size of mirror, in.	Shipping weight lb.
	STYLE E—TO RECESS, WITH POCKET SHELF BELOW				
19	16 x 27½	13½ x 16	13¾ x 24¼	10 x 14	52
20	21½ x 33½	18½ x 21	18¾ x 29¾	14 x 18	68
21	23½ x 35½	20½ x 23	20¾ x 31¾	16 x 20	77
22	25½ x 37½	22½ x 25	22¾ x 33¾	18 x 22	85
23	27½ x 39½	24½ x 27	24¾ x 35¾	20 x 24	100
	STYLE F—TO RECESS				
29	16 x 20	13½ x 16	13¾ x 16¼	10 x 14	48
30	21½ x 25½	18½ x 21	18¾ x 21¼	14 x 18	59
31	23½ x 27½	20½ x 23	20¾ x 23¼	16 x 20	68
32	25½ x 29½	22½ x 25	22¾ x 25¼	18 x 22	75
33	27½ x 31½	24½ x 27	24¾ x 27¼	20 x 24	90
	STYLE H—TO HANG ON WALL				
49	16¾ x 20	15⅜ x 18	.....	10 x 14	51
50	21¾ x 24¾	20½ x 22¾	.....	14 x 18	62
51	23¾ x 26¾	22½ x 24¾	.....	16 x 20	71

HESS STEEL LAVATORY MIRRORS

No.	Outside dimensions (shelf and bar not included), in.	Wall opening, in.	Size of mirror, in.	Shipping weight lb.
	STYLE A—MIRROR ONLY, WITH OR WITHOUT GLASS SHELF AND TOWEL BAR			
6	12⅜ x 16⅜	No opening required	10 x 14	30
60	17⅜ x 21⅜		14 x 18	35
61	19⅜ x 23⅜		16 x 20	38
62	21⅜ x 25⅜		18 x 22	40
63	23⅜ x 27⅜		20 x 24	43

Style AA No.	DIMENSIONS		Wall Opening 4¼ in. Deep	Shipping weight lbs.
	Outside	Mirror		
16	12⅜ x 25½	10 x 14	6½ x 9¾	25
160	17¼ x 29¼	14 x 18	6½ x 13¾	30
161	19¼ x 31¼	16 x 20	6½ x 15¾	35
162	21¼ x 33¼	18 x 22	6½ x 17¾	40
163	23¼ x 35¼	20 x 24	6½ x 19¾	45

Established 1816

LAWCO BATHROOM CABINETS

110 Years' Successful Manufacturing

Manufactured by

THE F. H. LAWSON COMPANY

CINCINNATI, OHIO

CHICAGO, ILL., 60 East Lake Street

BROOKLYN, N. Y., 33 Bush Terminal

Qutality Cabinets at Reasonable Prices

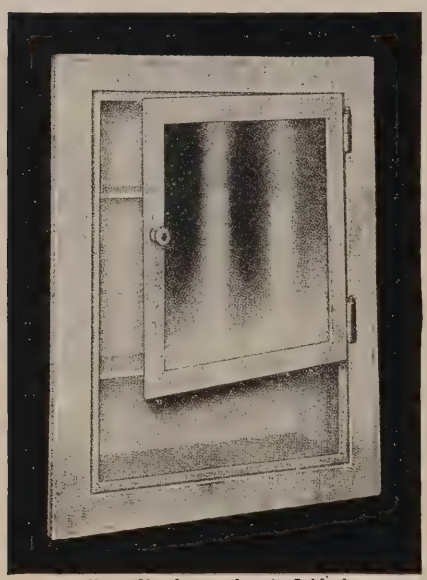
Every Cabinet turned out is backed by 110 years of successful manufacturing. This experience is used to produce the highest grade cabinets at a reasonable price.

The Lawco Bathroom Cabinets are beautiful and lasting. Finished in a rich white lacquer enamel inside and out it has a permanent beauty. Constructed of heavy sheet steel and welded and soldered in every joint it is practically indestructible. Write for further information.

DIMENSIONS (INCHES) OF LAWCO INSERT CABINETS

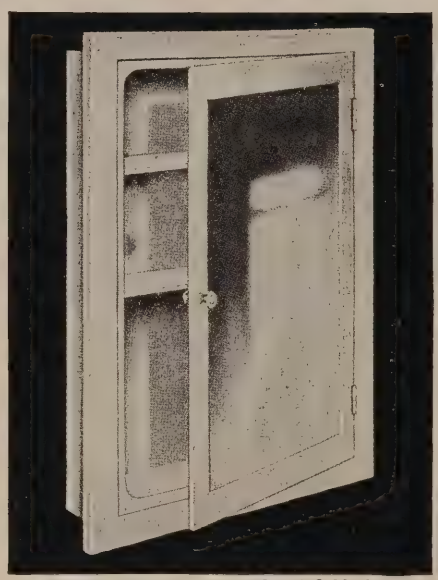
No.	Outside dimension, wall flange	Wall opening	Flange Depth	Flange Width	Door	Mirror	Ship'g wt., lb.
100	17 3/4x22 5/8	13 1/4x19 1/4x3 1/2	1 1/4	1 3/4	14 x19	10x14	30
150	17 3/4x22 5/8	13 1/4x19 1/4x3 1/2	1 1/4	1 3/4	14 x14	12x12	35
200	17 3/4x22 5/8	13 1/4x19 1/4x3 1/2	1 1/4	1 3/4	14 x19	11x16	35
250	16 3/4x22 3/4	12 3/4x19 1/2x3 1/2	1 5/8	1 1/2	13 3/8x13 3/8	12x12	45
300	16 3/4x22 3/4	12 3/4x19 1/2x3 1/2	1 5/8	1 1/2	13 3/8x19 3/8	12x18	45
350	18 3/4x24 3/4	14 3/4x21 1/2x3 1/2	1 5/8	1 1/2	15 3/8x15 3/8	14x14	50
400	18 3/4x24 3/4	14 3/4x21 1/2x3 1/2	1 5/8	1 1/2	15 3/8x21 3/8	14x20	50
450	20 3/4x26 3/4	16 3/4x23 1/2x3 1/2	1 5/8	1 1/2	17 3/8x17 3/8	16x16	55
500	20 3/4x26 3/4	16 3/4x23 1/2x3 1/2	1 5/8	1 1/2	17 3/8x23 3/8	16x22	55

All above from 250 to 500, inclusive, can be furnished in the patented "Access" Type.



No. 150. Lawco Insert Cabinet

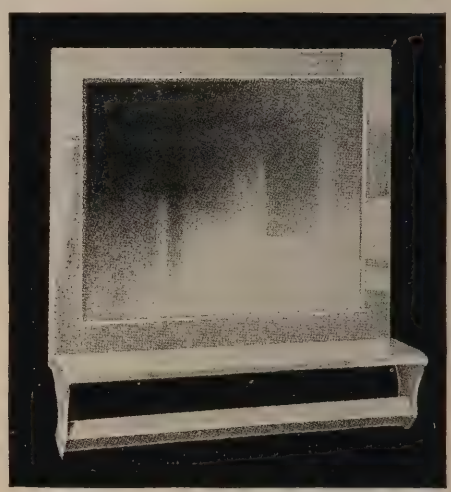
Best quality plate mirror ¼ in. thick; two adjustable glass shelves; hexagon porcelain knob operating adjustable spring plunger catch. Hinges, white enamel steel.



Nos. 100, 200. Lawco Insert Cabinet

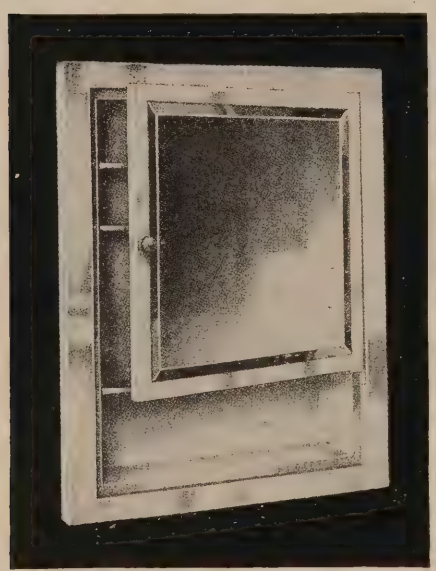
No. 200—Best quality plain plate mirror ¼ in. thick; two adjustable glass shelves 13x14 in.; porcelain knob operating inside, adjustable plunger catch; hinges, white enamel.

No. 100—Similar to No. 200, except 10x14 in. mirror, stationary metal shelves and mirror not removable.



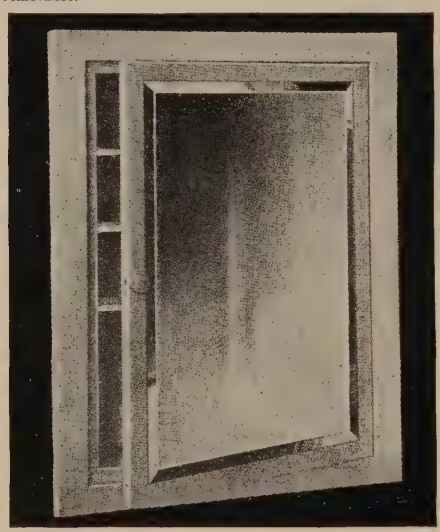
Lawco Combination Mirror, Shelf and Towel Bar

Best quality plain mirror 13¼x15½, ¼ in. thick; white opal glass shelf 5x18, 3/16 in. thick; mirror flange 1⅝ in. wide, ⅞ in. deep; Armco ingot iron towel bar with three coats of white vitreous enamel, burnt on. Over-all dimensions, 20 in. high, 18½ in. wide, 6 in. deep from front edge of shelf to back of mirror flange.



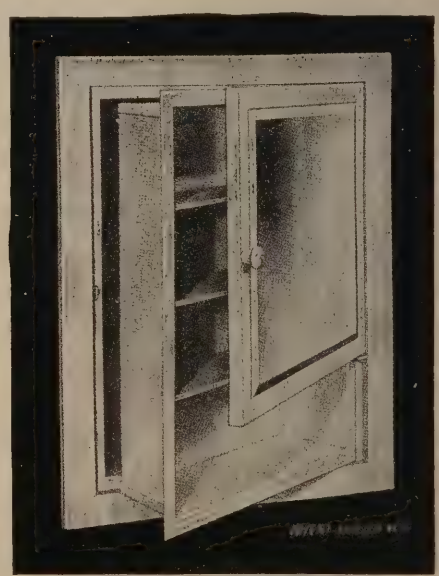
Nos. 250, 350, 450. Lawco Insert Cabinets with Short Door and Exposed Shelf

Best quality bevel plate mirror ¼ in. thick; three adjustable ¼ in. plate glass shelves; white porcelain hexagon knob operating inside, adjustable spring plunger catch; concealed pin hinges.



Nos. 300, 400, 500. Lawco Insert Cabinets with Long Door

Best quality bevel plate mirror ¼ in. thick; three adjustable ¼ in. plate glass shelves; white porcelain hexagon knob, operating inside, adjustable brass spring plunger catch; concealed pin hinges.



Lawco "Access" Insert Cabinet

The only practical access cabinet on the market. This type can be furnished in No. 250 to 500.

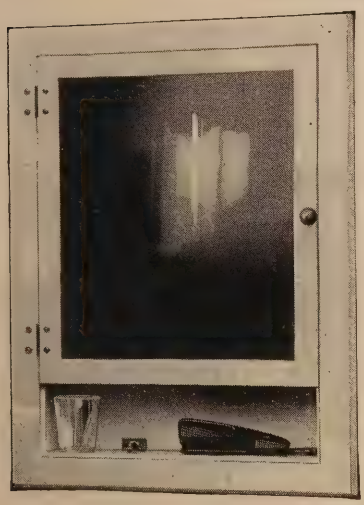
For further details and literature, write to: **THE F. H. LAWSON COMPANY, Cincinnati, Ohio**

MAJESTIC STEEL MEDICINE CABINETS

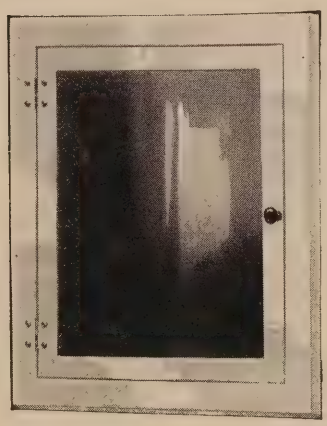
Manufactured by

MAJESTIC STEEL CABINET CO.

4051 North Tripp Ave., Chicago



No. 812



No. 810

MAJESTIC HI-GRADE CONSTRUCTION

Attractive design with unusual refinements in details to harmonize with the finest bathroom equipment. No. 20 guage patent level furniture steel insures life-time service. The workmanship is so accurate that the door is cushioned by the air in the case, closing with a faint click. The rich appearance has won popular favor everywhere.

No. 812 Specifications: 16"x20" polished plate glass mirror, outside 22½"x31½", inside 17¾"x26¾", depth over all 5", plaster line to back of cabinet 4", opening for shelf below door 5" high, fitted with three plate glass shelves and vitrolite plate in recess, solid brass nickel plated hinges and knob, 4 coat baked enamel finish. Requires wall opening 18¼"x27¼".

No. 810 Specifications: Same appointments as No. 812 except measurements of case. Outside 22½"x26½", inside 17¾"x21¾", depth over all 5", plaster line to back of cabinet 4". Cabinet reversible for left or right hand door swing. Requires wall opening 18¼"x22¼".



No. 807



No. 805

MAJESTIC POPULAR CONSTRUCTION

Has many advantages of our "Hi-Grade" cabinet simplified to enable our extremely low price. Costs less than a good wood cabinet installed, lasts longer, looks better. Door closes noiselessly and with dust-proof snugness. No. 22 guage patent level special furniture steel is used throughout. Conforms to Majestic high standard of workmanship.

No. 807 Specifications: 14"x18" polished plate glass mirror. Outside 20⅜"x29⅜", inside 16½"x25½", depth over all 4½", plaster line to back of cabinet 3⅝", opening for shelf below door 5" high, fitted with two plate glass shelves and vitrolite plate in recess, solid brass nickel plated knob, special semi-visible enameled hinges, welded in place, 4 coat baked enamel finish. Requires wall opening 16¾"x25¾".

No. 805 Specifications: Same appointments as No. 807 except measurements. Outside 20⅜"x24⅜", inside 16½"x20½", depth over all 4½", plaster line to back of cabinet 3⅝". Cabinet reversible for left or right hand door swing. Requires wall opening 16¾"x20¾".

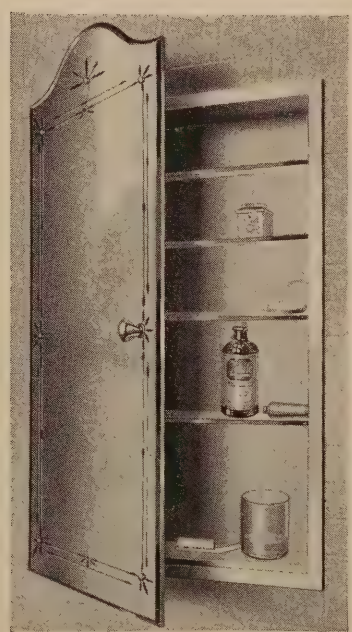
Why You Should Specify Majestic Medicine Cabinets

1. One-piece die stamped door and cabinet frames.
2. Automatic door catch, nothing to turn or get out of order.
3. Doors open all the way without marring cabinet.
4. Removable glass shelves are standard equipment.
5. White Vitrolite plate furnished for open shelf in Nos. 807 and 812.
6. Solid brass nickeled knob, riveted in place. Will never work loose.
7. Exceptionally easy to clean, both inside and outside.
8. No unsightly, hard to clean moldings on door to catch dirt and water.
9. Best quality plate glass mirrors. (No crystal (rolled glass) or shock mirrors).
10. Four coat baked enamel finish, with the Majestic rust-proof bond coat as a base. The usual finishes, while they show a polish when new, soon loose their lustre. The depth of the Majestic finish provides a permanent lustre that improves with age.

All joints are electrically or acetylene welded, then ground and polished. This is your assurance that cracked corners will never develop. The finish has twice the application most medicine cabinets have and we guarantee to exchange any cabinets should defects develop with proper care.

When you consider the cost of wood cabinets with all their warping, shrinking, hard-to-clean doors and shelves, **Majestic Steel Medicine cabinets will** prove lasting satisfaction, economy and beauty. The outstanding quality of Majestic Medicine Cabinets is reflected in the reputation our metal craftsmen have earned. Their experience covers a wide range of household steel equipment as shown in part on pages 218-19. Specify Majestic, your satisfaction is guaranteed. guaranteed.

A Fine Venetian Mirror with a Hidden Medicine Cabinet



The Majestic DeLuxe Medicine Cabinet

"Something finer" for the unusual bathroom. The beautiful Venetian Mirror shows no evidence of a cabinet. There are no hinges visible. A small glass knob opens the mirror door. The inside of the door is a steel mounting, handsomely finished in hand-rubbed walnut. The case has every Majestic refinement. The mirrors are engraved on the back, leaving a smooth, easy-to-polish surface.

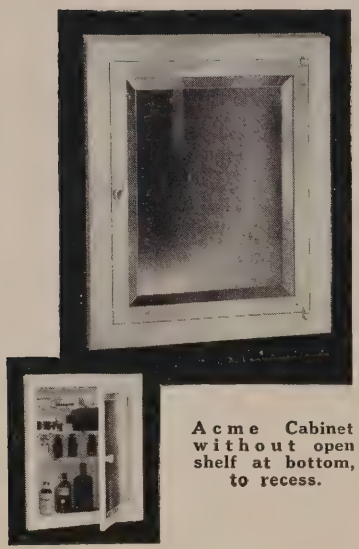
Three styles of mirrors—"B" as shown, "A" slightly more engraving than "A", "C" no engraving. Size of mirrors 18"x30". Requires wall opening 16½x26". Ask for Bulletin No. 23 and prices.

Acme Sanitary Steel Medicine Cabinets

Made By

MORTON MANUFACTURING COMPANY

General Offices and Factory
5133-43 West Lake Street, Chicago, Illinois
Cable Address "MORMANCO", CHICAGO, Codes—A. B. C., 5th Edition, Bentley's, Lieber's.



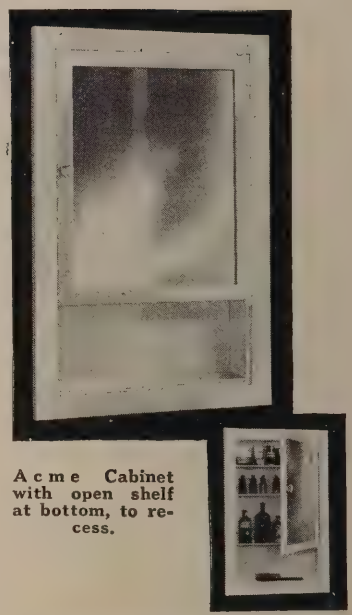
Acme Cabinet without open shelf at bottom, to recess.

Products

Acme Sanitary Steel Medicine Cabinets, Kass Safety Treads for Stairs and Floors, Acme Line of Steel Doors, Welded Tubing and Steel Products.

Materials

Acme Cabinets are made of heavy guage, rust-resisting steel, properly fabricated to insure rugged durability and permanently satisfactory operation without sagging or warping. This company has specialized for years in the fabrication of highly finished steel doors and interior trim for railway passenger cars, and consequently we have an unusual equipment of machinery, sandblasters, sprayers and ovens for producing the highest grade enameled steel cabinets *at attractive prices.*



Acme Cabinet with open shelf at bottom, to recess.

Principal Excelling Features

Sanitary coved (rounded) corners in which dust cannot collect. Easy to clean.

Sanitary white metal brackets to support shelves; Edges and corners rounded. No cracks or joints to collect dust.

Sanitary hinges, made of white metal—will not rust.

Specially designed combination ball and spring catch.

Clear crystal cut glass knob with rubber protecting cushion.

Selected Mirror.

Mirror easily replaced, if found necessary.

Vastly stronger — made of heavier gauge metal.

High quality baked enamel finish. Our sandblasting, spraying and baking facilities are unsurpassed.

Low Price—on either large or small quantities.



Acme Open Shelf Cabinet with Attachment.

Dimensions and Weights

Cabinet Without Open Shelf

Mirror size
10″x14″ 12″x16″ 14″x18″ 16″x20″

Outside dimensions
15½″x19½″ 17½″x21½″
19½″x23½″ 21½″x25½″

Inside dimensions
12″x16″ 14″x18″ 16″x20″ 18″x22″

Wall opening required
12¼″x16¼″ 14¼″x18¼″
16¼″x20¼″ 18¼″x22¼″

Approximate shipping weight
30 lbs. 35 lbs. 40 lbs. 45 lbs.

Cabinet With Open Shelf

Mirror size
10″x14″ 12″x16″ 14″x18″ 16″x20″

Outside dimensions
15½″x26¼″ 17½″x28¼″
19½″x30¼″ 21½″x32¼″

Inside dimensions
12″x22¾″ 14″x24¾″
16″x26¾″ 18″x28¾″

Wall opening required
12¼″x23″ 14¼″x25″
16¼″x27″ 18¼″x29″

Approximate shipping weight
35 lbs. 40 lbs. 45 lbs. 50 lbs.

Other types of Cabinets, special or otherwise, furnished where quantity warrants.



Acme Mirror with glass shelf.



Acme Cabinet without shelf with towel rack.



Acme Wall Type Cabinet for use without recess.



Acme Cabinet hinged in frame.

Silvers White Enamel Steel Medicine Cabinets

Manufactured By

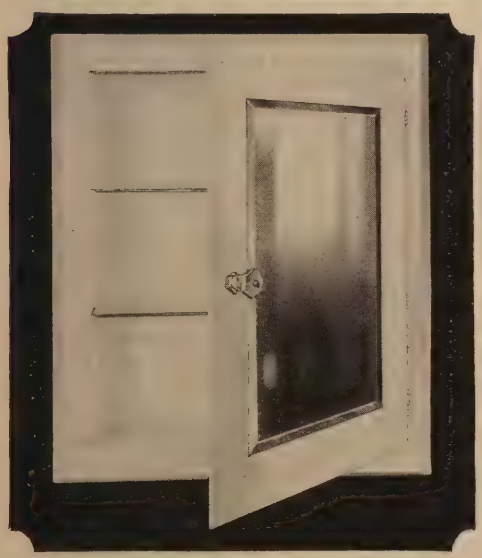
SILVERS MANUFACTURING CO.

WATERLOO, IOWA



Open Shelf Recessed Type Steel Cabinets Styles: 0-22, 0-23, 0-33, 0-43



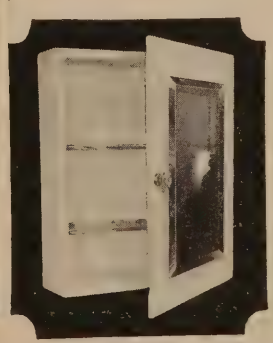


Recessed Steel Cabinets Styles: 22, 23, 33, 43





Style "AAA" Wall Type Cabinet



America's Most Beautiful Cabinets Have Made the Silvers Mfg. Co. One of the Largest Institutions of Its Kind In the Country—

Why?

Because—

SILVERS Cabinets are made of the very finest furniture steel, and are built to sustain a reputation that defies competition.

SILVERS Cabinets are made in large quantities with modern up-to-date machinery and skilled workmen, who keep quality up and prices down.

SILVERS Cabinets are finished with the finest Snow-White baked Enamel, that is guaranteed not to crack nor peel, and if better Cabinets could be built, Silvers would build them.

It is impossible to manufacture finer cabinets than we are manufacturing as we use the very finest Furniture steel and the very finest White Enamels which are guaranteed.

You'll find SILVERS steel medicine cabinets in some of the largest apartments and hotels in the country—evidence that they are a quality product sold at the lowest possible price.

We invite comparison and before entering your order with any concern, kindly write to us for samples and very lowest quantity prices and we will be pleased to send you samples for your inspection and comparison of other makes, as we pride ourselves on price, quality and service.

Styles 0-22, 0-23, 0-33 and 0-43

Finish: Four Coats of Snow-White Baked Enamel. Mirror: Finest Beveled Edge Plate Glass. Nickel Plated Glass Door Knob. Furnished with Invisible Hinges. Two Adjustable Plate Glass Shelves.

DIMENSIONS

Style	Outside Dimensions	Opening Required in Wall	Inside Depth	Mirror Size
0-22	18 x27½	13⅞x23½x2⅞	4	10x14
0-23	19½x29⅜	15½x25½x3¾	5	12x16
0-33	21¼x31¼	17½x27½x3¾	5	14x18
0-43	23 x35¼	19¼x31½x3¾	5	16x22

Recessed Steel Cabinets—Styles 22, 23, 33 and 43

Finish: Four Coats of Snow-White Baked Enamel. Mirror: Finest Beveled Edge Plate Glass. Nickel Plated Glass Door Knob and Nickel Plated Hinges. Two Adjustable Plate Glass Shelves. Invisible Hinges. Write for prices.

DIMENSIONS

Style	Outside Dimensions	Opening Required in Wall	Inside Depth	Mirror Size
22	18 x21½	13⅞x17¾x2⅞	4	10x14
23	19½x23⅜	15½x19½x3¾	5	12x16
33	21¼x25¼	17½x21½x3¾	5	14x18
43	23 x29¼	19¼x25½x3¾	5	16x22

Wall Type Cabinet—Style "AAA"

Finish: Four Coats of Snow-White Baked Enamel. Mirror: Finest Beveled Edge Plate Glass 12"x16". Nickel Plated Glass Door Knob. One Piece Solid Steel Front. Two Adjustable Plate Glass Shelves.

DIMENSIONS

Height.....21" Width.....17" Depth..... 5"

For further details and literature, write to: **SILVERS MANUFACTURING CO., Waterloo, Iowa**

"White-Steel" Medicine Cabinets

Made by

"WHITE-STEEL" SANITARY FURNITURE CO.

Grand Rapids, Mich.

The Original and Only — "WHITE-STEEL" — A Product of a Secret Process

The choice of medicine cabinets for the well appointed modern home should be given the same consideration as the selection of fine plumbing fixtures. For medicine cabinets should be in perfect harmony with such equipment, embodying the same fine features of sanitation, lasting beauty, and great usefulness. Choose them with equal discrimination.

The Ultra Attractiveness and Construction of "White-Steel" Cabinets Is Everlasting

The exceptional beauty, sound construction and exclusive sanitary features of "White-Steel" Medicine Cabinets make them worthy of careful consideration. Add to this the fact that through a secret process their ultra attractiveness and construction is made practically ever-lasting;—then it is easy to understand why "White-Steel Cabinets are chosen by all who build for permanent beauty, convenience, sanitation and true economy.

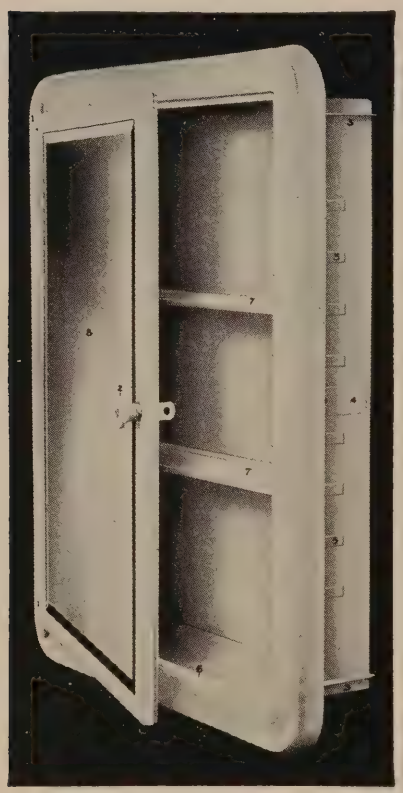
In the Bathroom, of course. But in the Lavatory and Over the Kitchen Sink as Well

Many builders recommend the installation of "White-Steel" Cabinets in Kitchens and lavatories as well as bathrooms. They know from experience that the added convenience and the touch of beautiful lasting construction they impart, repays their cost many times over, both in satisfaction to the home owner and in the actual sales value of the house itself.

Henzin Metal—The Base of All "White-Steel" Medicine Cabinets

The dampness and moisture that occur with sudden temperature changes, particularly in the bathroom, are elements that ordinary steel enamel work cannot successfully meet. They are bound to form rust on the metal base which causes the enamel to lose its grip, scale off, discolor, crack and peal.

Henzin Metal, the base of all "White-Steel" Cabinets, completely overcomes the moisture problem. It is Rust Resisting, a product of a secret process that cannot be duplicated or successfully imitated. Six coats of "White-Steel" Enamel, each baked separately on this wonderful base, provides a finish that is as permanent as it is beautiful. Expansion or contraction has no effect on the finish or construction of these cabinets.



Standard and Special Types

"White-Steel" Medicine Cabinets are built in three types—Inset, (to recess) Wall (to attach to face of wall) and Corner cabinets (to fit in corner)—and in styles and sizes to meet every architectural requirement. Standard styles and dimensions are shown on the following page.

We maintain a very efficient consulting and designing service which is free to contractors and builders.

Structural Superiorities

Seamless Construction

The entire cabinet is of die made seamless construction, is electrically welded throughout, and is strong and firmly built.

Materials Used

The Henzin Metal used for "White-Steel" structures are .050 to .250 gauge (approximately 1/16 to ¼ inch) except for the backs which are .025. Our dies and shop practice require a certain gauge to be used for a specific purpose, not permitting the substitution of cheaper or lighter gauge sheets to lessen construction costs.

Mirrors

Mirrors are of first quality, plain, or with a sharp, steep bevel. Backs are properly silvered and are not affected by varying temperatures or room moisture.

Shelves are of polished plate glass, ¼-inch thick.

1—*Adjustable lock pivot hinge* (patent applied for). Doors can always be properly centered thus eliminating wear.
2—*Mounted white ceramic demountable knob* to match the white handles of plumbing fixtures.
3—*Shear clips* provide easy installation in variable openings.
4—*Heavily reinforced at anchorage.*
5—*No floating shelf supports.* Supports are spot-welded—cannot become loose or lost.

Ventilation

Step-in door and step-in door jamb providing sufficient, and invisible ventilation—an important factor.

Demoutable mirrors that can be easily installed by any competent workman. (Should replacement of accidental damage be necessary at any time).

Other Products

In addition to the "White-Steel" Medicine Cabinets illustrated and described on this and following page, this company manufactures Mirrors; Shelves; Towel Baskets; Racks and Bars; Soap Dishes and Holders; Toothbrush Holders; Toilet Paper Holders and Cabinets; Grab Rails; Shower Curtain Rods; Hooks for various purposes; Door Stops; and every accessory to equip bathrooms of the most modern type.

For further details and literature, write to: **"WHITE-STEEL" SANITARY FURNITURE CO., GRAND RAPIDS, MICH.**

Standard Code Regulating the Installation of Warm Air Heating Furnaces in Residences

Approved and Issued by Authority of

NATIONAL WARM AIR HEATING & VENTILATING ASSOCIATION

52 W. Gay St., Columbus, Ohio

ARTICLE NO. 1

Meaning of the Term "Warm Air Furnace Heating Plant"

Warm air furnace heating plants, to which this code refers, shall consist of one or more warm air furnaces, enclosed within casings, together with necessary appurtenances therefo, consisting of warm air pipes and fittings, cold air or recirculating pipes, boxes and fittings, smoke pipes and fittings, registers, borders and face plates, the same being intended for heating buildings in which they may be installed.

ARTICLE NO. 2

Provisions to be made in Building under Construction for Reception of Warm Air Furnace Heating Plant

Section 1. (a) The following provisions shall be made by the owner or building contractor, in any building wherein a warm air heating plant is to be installed.

(b) Where warm air register boxes, heads, pipes or stacks are to be installed, joists shall be set not less than sixteen inches (16″) on centers and shall be butted and not lapped. Studding shall set directly over and under joists, leaving a space of not less than fourteen inches (14″) between studs and joists. Wherever joists are cut, headers must be put to support joists.

(c) All first story single or sub-floors shall be continuous. In all houses having studded exterior walls, these floors shall be extended to the outside sheathing and all spaces between studding shall be closed at the attic line.

Note 1. It is strongly recommended that the attic be tightly floored to reduce heat losses.

(d) All partition walls (or sections of the walls) in which heat stacks to second floor rooms are to be installed, shall be built of six inch (6″) studding to second story floor joists.

Chimneys

Section 2. (a) The owner shall provide a chimney for the furnace constructed in a manner to comply with the following specifications.

(b) The chimney must be absolutely smoke tight throughout its entire length, and must extend at least three feet (3′) above a flat roof or two feet above the ridges of peak roofs.

(c) If built of a single thickness of brick or of cement blocks, it shall be lined throughout its entire length with fire clay flue lining, having not less than three-fourths inch (¾″) thickness. Flue lining to be laid in mortar and made air tight.

(d) The furnace flue must have no other opening for attaching any fireplace, furnace, stove, range, water heater, gas or ventilating connection.

(e) If necessary to offset the flue, it must be done in such manner as not to reduce the cross sectional area nor create a ledge or obstruction, where loose material may lodge.

(f) Its narrowest internal dimension shall not be less than eight (8″) inches and no flue smaller than 8″ x 8″ rectangular or eight (8″) inch diameter round will be considered suitable when hard coal is to be burned, or 8″ x 12″ rectangular or ten (10″) inch round for soft coal or wood.

(g) It is strongly recommended that nothing less than 8″ x 12″ internal dimensions be used in any case.

Note 2. It is recommended that the height above the furnace grate be not less than twenty-six (26′) feet.

Note 3. It is strongly recommended that all new chimneys be built in strict accordance with the ordinance recommended by the National Board of Fire Underwriters.

ARTICLE NO. 3

Method for Determining Size of Warm Air Pipes, Wall Stacks and Furnaces for Use in a Residence

Method of Determining Size of Basement Warm Air Pipes

(Read Explanatory Notes 4 to 11)

Section 1. First Floor Rooms.

Divide square feet of glass by 12,
Divide square feet of net outside wall by 60,
Divide cubic contents by 800,
Add together the above and multiply by 9.
The result is the area of the basement pipe.

The sum of: Glass (sq. ft.) (*Note 4*) ÷ 12; Net Wall (sq. ft.) (*Note 5*) ÷ 60; Cubic Contents ÷ 800	× 9 =	Area of Basm't. Pipe (*Note 10*)

Section 2. Second Floor Rooms.

Divide square feet of glass by 12,
Divide square feet of net outside wall by 60,
Divide cubic contents by 800,
Add together the above and multiply by 6.
The result is the area of the basement pipe.

The sum of: Glass (sq. ft.) (*Note 4*) ÷ 12; Net Wall (sq. ft.) (*Note 5*) ÷ 60; Cubic Contents ÷ 800	× 6 =	Area of Basm't. Pipe (*Note 10*)

Section 3. Third Floor Rooms.

Divide square feet of glass by 12,
Divide square feet of net outside wall by 60,
Divide cubic contents by 800,
Add together the above and multiply by 5.
The result is the area of the basement pipe.

The sum of: Glass (sq. ft.) (*Note 4*) ÷ 12; Net Wall (sq. ft.) (*Note 5*) ÷ 60; Cubic Contents ÷ 800	× 5 =	Area of Basm't. Pipe (*Note 10*)

Method of Determining Size of Wall Stacks.

Section 4. First Floor Rooms.
Same as Section 1.

Section 5. Second Floor Rooms.
Deduct 30% from basement pipe area determined in Section 2.

Section 6. Third Floor Rooms.
Deduct 30% from basement pipe area determined in Section 3.

Explanatory Notes

Note 4. In obtaining glass surface use full casement opening. An outside door is figured as glass.

Note 5. To obtain net outside wall multiply heighth by width and deduct the glass in all windows and outside doors.

Note 6. For rooms having unusual exposure ordinary north, northeast and northwest, add 15% to pipe area. For east and west exposure, add 10%.

Note 7. For cold ceilings, add one half net area of ceiling to net exposed wall cold ceilings are those next to unfloored attics.)

Note 8. Use no warm air pipe less than 8 inches in diameter. If a basement warm air pipe figures greater area than any standard commercial size then the next larger size shall be used.

Note 9. It is understood in using the above valves for determining basement warm air pipe areas, that these pipes should run comparatively straight and that they should not be over 10 to 12 feet in length. Sharp turns and long pipes should have extra capacity.

Note 10. These formulae are for 70° inside temperature with zero temperature outside. For a temperature of 10° below zero, add 10% to the capacity of each pipe.

Note 11. The value of 800 (used in cubic contents) is for an estimated air change of one room volume per hour. If it is desired to provide for 1½ room volume use the figure 600. If for 2 room volumes use the figure 400. "The factors 9, 6 and 5 in sections 1, 2 and 3, are calculated for a register air temperature of 175 degrees."

Transition Fittings and Stacks

Section 7. Transition from warm air pipes to stacks shall be made with a well designed elbow or boot and no stack shall be less than 70% of the warm air pipe area.

Method of Determining Size of Registers

Section 8. All registers shall have a free area not less than the sum of all the warm air pipe areas.

Method of Determining Size of Furnace

Section 9. Add together the actual warm air pipe areas in sq. in. as obtained in Sec. 1, 2 and 3, and select a furnace having a free area not less than the sum of all the warm air pipe areas.

ARTICLE NO. 4

INSTALLATION

Location of Furnace

Section 1. The location of the furnace shall equalize the length of warm air runs as far as possible, yet give necessary preference to pipes supplying living rooms, dining rooms and main halls.

Foundation

Section 2. Furnace foundation of brick, cement, or other incombustible material must be provided. Said foundation to extend at least fifteen (15″) inches at rear and sides of furnace casing and at least thirty-six (36″) inches in front of furnace casing. Foundation to be level.

Setting or Assembling of Furnace

Section 3. (a) The base ring of the furnace shall be cemented to the foundation, making an air tight joint. The furnace parts shall be assembled plumb and level, and in a workmanlike manner.

(b) All sections and points shall be properly fitted. Joints requiring cement shall be well filled and all bolts shall be drawn up tightly.

Casings

Section 4. (a) Warm air Furnaces shall be enclosed in metal casings or walls of brick, tile or concrete.

(b) Portable. Sheet metal casings including casing tops shall be made of galvanized sheets, not lighter than 26-U. S. Standard Gauge. They shall fit the castings and casing rings closely, so as to be dust tight, and shall be securely fastened to the front. The casing shall be lined from the upper casing ring down to a line on a level with the grate.

(c) When side collars are used the casing top must be of sufficient height so that the largest warm air pipe can be taken from side without ovaling. In no case shall a distance less than eight (8″) inches be maintained between the top of any furnace and the top of casing or bonnet.

(d) Any furnace, the casing top of which shall come within sixteen (16″) inches of a combustible floor, ceiling or joist, shall be protected by a metal shield, extending not less than eighteen (18″) inches beyond the casing of said furnace. This shield shall be suspended at least two inches below wood work, allowing free air space between shield and woodwork. No furnace casing or top, coming nearer than six (6″) inches of ceiling or joists shall be allowed in any case.

(e) Openings for side casing collars shall be cut into the casing top, so that the tops of all openings are on a level. Casing collars shall be fitted into place with a proper flange, or bead on the outside and drawn up on the inside, making a dust-tight joint. All collars shall be of same size as the warm air pipes to which they are to be connected.

(f) Brick set, cement or hollow tile casings shall be constructed as follows: Walls shall be not less than eight (8″) inches in thickness, and shall be constructed air tight. Rectangular casing shall be, with least inside dimensions, the same as that of the portable casing of a corresponding size of furnace. Walls shall be carried to the same heighth as the portable walls, allowing not less than eight (8″) inches between the top of the furnace and the bottom of the top cover. After placing the collars for the warm air pipes, continue the masonry up even with the top of the collars, lay spacing rods of bar iron on edge or angle irons across the furnace top, cover these with sheet iron, cover the sheet iron with masonry and run the side walls four (4″) inches above the masonry bed. A galvanized iron casing bonnet may be used on brick set furnaces.

Provision shall be made in the walls for a manhole to give ingress to heater.

Warm Air Pipes in Basement

Section 5. (a) All warm air pipes shall be made of bright tin not lighter than IC, or galvanized iron. Side seams shall be locked seams. All joints shall be either double seamed or lapped not less than one and one-quarter (1¼″) inches and such joints shall be beaded and soldered or riveted. All pipes shall be properly secured to ceiling or joist. No solder or riveted joint is required where round pipe slips over the casing collar. Any pipe twelve (12″) inches or greater in diameter shall not be made of material lighter than IX tin or No. 26 U. S. Standard Gauge galvanized iron.

Note 12. It is recommended that all warm air pipes in the basement shall have an upward pitch of not less than one (1″) inch per running foot.

(b) No warm air pipe shall run within one (1″) inch of any woodwork unless such woodwork is covered with asbestos paper and the paper covered with tin or iron.

(c) All warm air pipes in the basement shall be provided with dampers not more than two feet from the casing.

(d) Where warm air pipes pass through a masonry wall, a metal thimble shall be provided, having a diameter at least 1″ greater than the pipe, and pipe supported in such a manner that the air space is uniform on all sides.

Wall Stacks

Section 6. (a) Single Stacks. All single wall stacks or wall pipes, heads, boots, ells, tees, angles and other connections shall be made of bright tin or galvanized iron and shall be covered with not less than one thickness of 12 lbs. per one hundred (100) square feet of asbestos paper. All studding and other woodwork facing said pipe shall be lined with metal and metal lath used in place of wood lath. An air space of not less than three eights (⅜″) of an inch shall be allowed on the two sides nearest the vertical studs. All such pipes shall be braced in a proper manner so as not to obstruct the flow of air but to retain the full capacity throughout. All joints shall be locked and held in place by means wholly upon solder to make it tight.

(b) Double Stacks. All double wall stacks or wall pipes, heads, boots, ells, tees, angles and other connections shall be made of bright tin, not lighter than IC or galvanized iron and shall be made double, from and including the boot or foot piece in basement to the top of each and every stack and register head on all space of not less than five-sixteenths (5-16″) of an inch, which must be maintained between the outer and inner walls of all such pipes and fittings of all kinds, styles and descriptions; such pipes, heads, boots and other fittings to be of the styles, or equal to those accepted by the National Board of Fire Underwriters.

All pipes and fittings either single or double must be secured firmly in place by lugs or straps attached to the outer walls of stacks and fittings, and no nails shall be driven through these stacks or fittings at any point. No wall pipes or fittings shall be used which depend wholly on soldered joints. The various members shall be so made that all joints are locked and soldered and the several members shall be attached to each other with slip joints, which are, for the purpose intended, air tight.

Registers

Section 7. (a) When baseboard or wall registers are used, they shall be properly and permanently attached to the stack head in such a manner that will prevent any leakage of air between the head and the register.

(b) Floor registers shall be provided either with register borders, or double register boxes of tin or gavanized iron with an air space of not less than five-sixteenths (5-16″) of an inch between inner and outer boxes.

(c) Registers for warm air and warm air pipes shall not be located in outside walls. The warm air registers in the various rooms shall be located in or near the inside walls in all cases.

Air Supply to Furnace

Section 8. (a) The air supply to furnace for warm air heating plants may be taken from outside or from within the building or may be taken partially from outside and partially from within. In no case, however, shall air be supplied to any furnace from any basement or furnace room.

(b) The cold air intake or return where air is taken from within the building shall have a net area throughout its entire length of not less than the combined net area of all warm air pipes leading from the furnace. This may be maintained in one or more ducts.

(c) When the cold air supply is taken wholly from the outside of the building the supply duct at its most contracted area must equal o rexceed eighty (80%) per cent of the combined area of all warm air pipes leading from the furnace.

(d) Cold air ducts shall be constructed of metal, tile or other incombustible material having smooth inner surface and shall maintain a constant net area throughout their length and shall be made air tight. Where a boot or shoe is connected to the casing at the base, the opening shall not extend higher than a line on the level of the grate of the furnace. The width of the shoe shall be of proper measurement to make the area at least equal to that of the round or square pipe to which it is connected.

(e) Wherever the space between joists is used to convey cold air over head, the joists and all wooden surfaces between such joists shall be lined with metal and a sheet metal pan constructed to extend not less than six (6″) inches below said joists. The connection from this pan to the boot or shoe shall be made of galvanized iron not lighter than No. 26 U. S. Standard Gauge, and shall have a transition collar, the top area of which shall be at least 10% greater than the area of the connecting pipe.

(d) The cold air face or faces shall be made of wood, or metal. When set in floors the top of same shall be flush with floor. Where cold air face is placed in a seat or side wall (whether furnished by owner, general contractor or furnace contractor) the open work of face must extend to within at least one (1″) inch of the floor line.

The free area of cold air faces shall be at least 10% in excess of the free area of the duct or ducts to which they are connected.

Note 13. The effective area of a vertical cold air face lies within twelve (12″) inches of the floor line, hence, the capacity of any vertical cold air face shall be determined by multiplying the base line in inches by not to exceed twelve (12″) inches in height and deducting for the grills or cross bars.

Smoke Pipes

Section 9. (a) The smoke pipe shall be as short and direct as consistent with the location of the furnace. It shall be made of either black or galvanized iron not lighter than No. 24 U. S. Standard gauge, and of the full size of the collar on the furnace throughout its entire length. It must have no other opening for attaching any fire place, stove, range, water heater, gas or ventilating connection. It shall be lock seamed or riveted; all joints shall lap not less than one and one-half (1½″) inches and it shall be rigidly secured. Cast iron smoke pipe may be used.

(b) Where the smoke pipe enters the flue, a thimble shall be cemented into the flue and the connections thereto made air tight. Should any smoke pipe come within eighteen (18″) inches of any combustible material, such combustible material must be covered with asbestos paper and a metal shield so fastened that a two inch air space exists between this shield and the combustible material. This shield shall be no less in size than twice the diameter of the smoke pipe and of sufficient length to cover the wood at all points.

(c) No smoke pipe shall project through any external wall or window.

Pipeless or One Pipe Furnaces

Section 10. (a) When but one duplex grating is used for both warm air and cold air in a so-called pipeless furnace, the area of the cold air intake shall be at least equal to the area of the warm air outlet of the grating. Art. 4 Sec. 4, relative to casing shall not govern when this type of furnace is installed, but the following specification shall be followed: The inner and outer casing of this type of furnace may be made of either black or galvanized iron not lighter than No. 26 U. S. Standard Gauge. A uniform air space shall be maintained at all points between the inner and outer casing. In no case shall the top of the furnace be allowed closer than twelve (12″) inches to any ceiling or joists above the furnace.

(b) Where joists are cut to accommodate this furnace, headers shall be put in and braced so as not to weaken the structure of the floor above the furnace.

(c) Article No. 3 for determining area of warm air pipe shall not govern in figuring a pipeless furnace.

(d) Where one warm air register face is used and separate face or faces for cold air supply are used, then Article No. 4, Sections 5 and 8 shall apply.

Andes Furnaces — "For Better Heating"

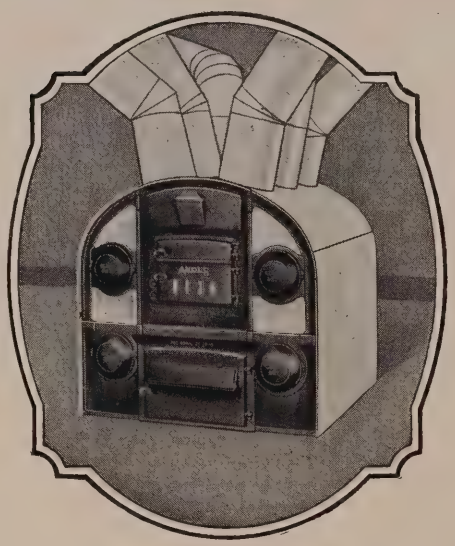
Made by

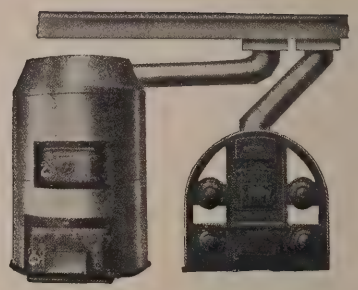
ANDES RANGE AND FURNACE CORP.

GENEVA, NEW YORK

Products

The products of this company are Ranges and Warm Air Furnaces. The latter are described and illustrated on this page and on opposite page. Information regarding Andes Ranges will be mailed on request.





Above (on the left) you see the ordinary type of furnace, its top nearly touching the basement ceiling. The air pipes must be run almost horizontal and as a result the warm air moves sluggishly and loses much of its heat before it reaches the rooms above. On the right is the low Type BRN Andes Furnace with the air pipe at an angle of 45°

Look at the Pictures

You have only to look at the illustrations on this page to realize that here is a furnace that is radically different from the usual type of warm (or hot) air furnace. You will learn presently why the Andes Furnace is purposely designed so that its height is but a little more than half that of other furnaces; but first we want to say a few words about——

Humidity

Most warm (or hot) air furnaces supply air that is lacking in humidity—that is to say the air is relatively dry. Dry air has a tremendous capacity for absorbing moisture, and if the air supplied by the furnace is low in humidity every breath we take results in a loss of moisture from the membranes of the nose and throat which becomes dry and irritable and less able to cope with the germs of disease. The skin of our bodies, also, is robbed of its moisture, and so rapidly that we feel cold even when the thermometer tells us that the room temperature is 75 degrees. The furniture dries out and falls apart and house plants wither and die.

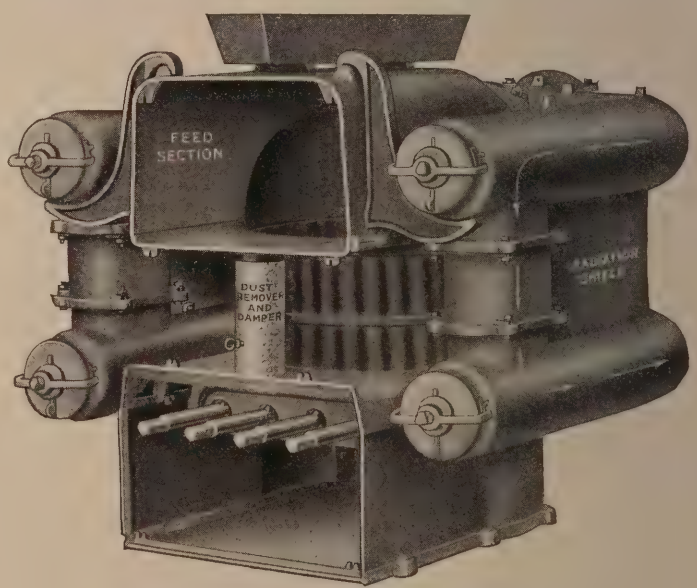
The few quarts of water you put in the water pan of the average furnace are not sufficient to humidify the air. Four to twelve *gallons* of water (depending on the size of the furnace) must be evaporated daily in order to give the air its proper percentage of humidity, and as you increase the humidity (within certain limits) you save fuel, for air at a temperature of 66 degrees with 70 percent humidity gives one the same feeling of warmth as air at 74 degrees with only 10 percent humidity. Andes Furnaces (Type BRN) are designed and built to evaporate the quantity of water required to properly humidify the air—4 to 12 gallons daily.

Warm Air Rises

It does not move sideways nor downwards except under pressure. Hence the more nearly vertical you make a pipe carrying warm air the more rapid will be the circulation of the air and the greater the heating capacity of the furnace. This is why we build a low furnace. Note the pictures at the top of this page. They show you why Andes Type BRM Furnaces give greater warmth with a lower consumption of fuel than any furnace you can buy.

Write for Booklet

The whole story of the Andes Type BRN Furnace cannot be told here, but we shall be glad to send you on request a booklet that describes and illustrates all the unique features of this furnace which has revolutionized the art of warm air heating. Some of the things described in this booklet are the Dust Remover, which sucks the dust from the ash pit up the chimney when the grate is shaken, so that it will not blow into your face when you open the ash pit door; and the Tongue and Groove Joints, with asbestos fibre gaskets, hat make every joint absolutely gas tight.



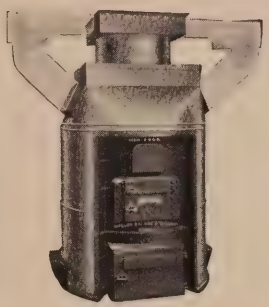
Andes Type BRN Furnace (Casing Removed)

For further details and literature, write to: **ANDES RANGE AND FURNACE CORP. Geneva, N. Y.**

ANDES FURNACES—"For Better Heating" (Continued)



One Pipe



Three Pipe



Pipe Furnace

ANDES FURNACES—TYPE MDN

The illustration at right shows an Andes Type MDN Furnace with casing removed. This furnace is made in three styles, as illustrated above, and each style is made in five sizes, insuring a size exactly suited to the requirements of any house, large or small.

Note the 12 Points of Superiority enumerated under illustration at right. These structural features result in a furnace that is highly efficient and a wonderful economizer of fuel, justifying the Andes slogan: "Better Heating for Less Money."

Andes Furnaces are adapted for burning hard coal, soft coal, coke or wood. They are lower in height than most furnaces and hence, even when installed in low ceiling basements, it is possible to give a good pitch to the warm air pipes which results in the heated air rising more quickly and in greater volume.

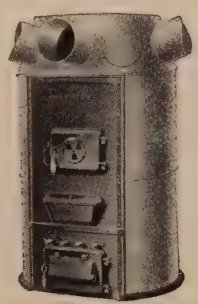
Complete data on sizes, dimensions and capacities will be gladly furnished on request.

This is the furnace to use when cost of heating equipment must be

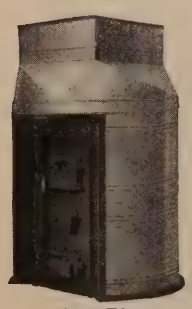
HOT RAY FURNACE (MADE BY ANDES)

This is the furnace to use when cost of heating equipment must be kept down to the minimum. A low priced furnace in which by skillful design the cost of manufacture has been reduced without sacrifice of quality or efficiency. A fine furnace for the bungalow or small house. Made in two types: One Pipe (sometimes called "Pipeless") Type, and the regular Pipe Type; and each type made in two sizes. Sizes, Dimensions and Capacities on request.

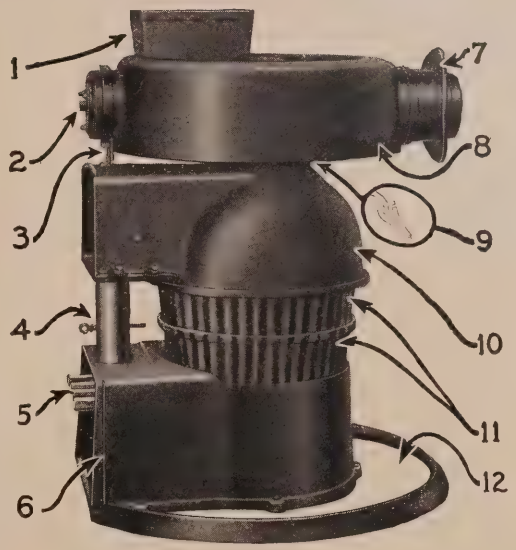




Pipe Furnace



One Pipe



12 Points of Superiority

1—Standard humidifier which is furnished on pipe furnaces. Regular equipment on Pipeless models, consists of two large water pans, one on either side, supplying any amount of humidity needed up to 7½ gal. daily.

2—The patented clean out that never wears out and is so easy to remove with the shaker.

3—The patented radiator lock that prevents an unsupported smoke pipe from tipping the radiator and allowing dust and gas to escape.

4—The dust pipe and damper to carry ash dust directly into the flues and so keep the house clean.

5—The patented four bar, four shaker grate that is easy to operate and to remove.

6—Large, roomy, one piece ash pit. The depth prevents ashes piling up under the grates and makes ash removal easy.

7—Special cast sliding sleeve that effectually closes the casing around the smoke pipe and yet allows free expansion and contraction of the furnace.

8—Very heavy one piece jointless cast iron radiator with exceptionally long flue travel.

9—The double lock joint that combines with the radiator locks to keep this most important joint of the furnace gas tight.

10—Unusually heavy combustion dome of perfect design and large radiating surface.

11—Heavy two piece fire pots with corrugated surfaces and straight sides.

12—Note large air space between casings and castings.

Engineering Service

Our long experience as heating engineers is freely at the service of building contractors. Ask us any questions you like relating to heating and we will answer fully and frankly. Heating plans furnished free with any Andes furnace.

Our booklets describing the various types of Andes Furnaces are more than trade literature. They contain much useful data of a general nature on the art of heating. Write for them. You will find them interesting and helpful.

For further details and literature, write to: **ANDES RANGE AND FURNACE CORP. Geneva, N. Y.**

Cole's Oil-Craft Furnaces, Hot Blast Heaters and Ranges

Made By

COLE MANUFACTURING CO.

3250 South Western Ave., Chicago



Cole's Oil-Craft Furnace

128 Oil Burner Engineers Helped Make this Furnace Perfect

128 Oil Burner Engineers co-operated with us to make the Oil-Craft Furnace perfect. They named every possible requirement. They suggested every improvement that would increase efficiency. And then, with all possible outside data before us, we brought to bear on the problem our own long experience as manufacturers of heating equipment.

The result is Cole's Oil-Craft Furnace, the most perfect type of oil burner for home heating ever produced. It may be used with any type of oil burning equipment on the market. It has the powerful radiating surface required to give the best results when oil is used as fuel and it is absolutely gas-tight. Parts are so designed that the furnace can be quickly and easily converted into a coal burner if desired.

Cole's Gas and Coal Ranges

Pictured at the right is Cole's Full Enamel Gas Range, designed to burn either natural or artificial gas. Note particularly the little disk in the upper left-hand side of the oven. This is the thermostatic device—the Automatic Chef—which by a turn of the dial regulates the heat of the oven to the exact temperature desired. The enameled drip-pan forms a white table top over the burners when the stove is not in use. The oven linings are full enameled, washed as easily as a china dish. The sanitary manifold cover is a special feature. The leg bottoms are closed to protect floor coverings. Send for the catalog. You will find in its pages information on other heating and cooking equipment that will be of interest to you—information, for instance, on Coal Ranges, Combination (coal and gas) Ranges, Wood Burning Stoves for room heating, Combination Wood and Coal Burners, and Furnaces equipped with the patented Hot Blast Draft through the famous Red Tube.

Write Us When in Doubt

We are always glad to answer questions regarding the best methods of heating any type of home. Whether you eventually install a Cole's Furnace or not we want you to feel free to call on us at any time for advice.

Products

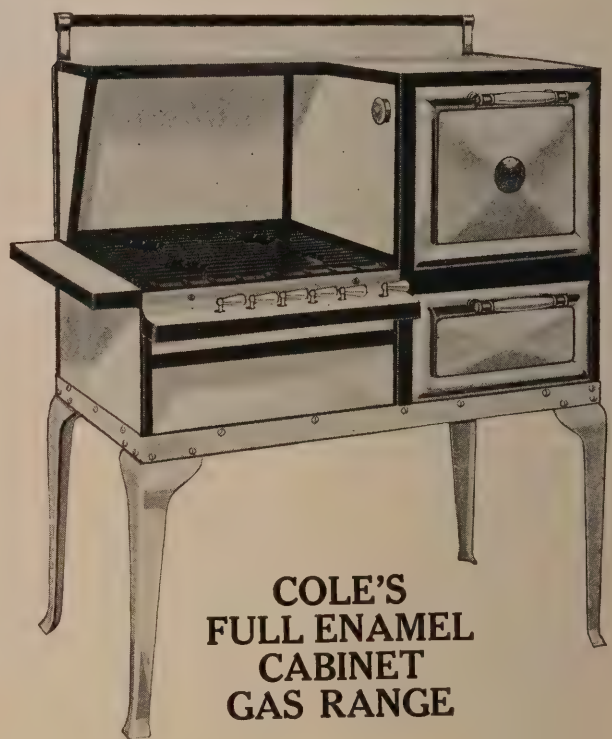
A complete line of fuel-saving Heaters, Ranges and Furnaces, embodying the famous "Hot Blast" originated by Cole, a device that saves 40 to 60 percent of your fuel by insuring the complete combustion of inflammable gases that are usually permitted to escape up the flue. Here is something worth looking into. Full information on request.

Cole's Oil-Craft Furnaces

Especially designed for home-heating Oil Burners. A coal-burning furnace that is converted into an oil burner is always a make-shift at best. But here is a furnace that is **designed** to burn oil—**built** to burn oil—and that burns it with a degree of efficiency and economy that is startling.

High in Efficiency—Low in Price

Cole's Oil-Craft Furnace is endorsed and recommended by the Chicago Oil Burner Association. It gives better results with any type of oil burner than is possible with a hot air furnace not especially designed to use this labor-saving fuel. In the bitterest winter weather it sends up to the most distant rooms a steady volume of comforting heat, with just the right degree of humidity. Best of all its cost is low—low enough so that you can figure on installing it in any house you build. Write today—now—for full particulars and prices.



COLE'S FULL ENAMEL CABINET GAS RANGE

Cole's Full Enamel Gas Cabinet Range For Either Natural or Artificial Gas

Can be furnished with right hand oven, as illustrated, or with left hand oven, and either with or without the Automatic Chef—or temperature regulating device.

	DIMENSIONS			
Top	Oven	Length Over All	Length Less Shelf	Shipping Weight
21x21"	16x20x14"	43½"	40"	247 lbs.

For further details and literature, write to: **COLE MANUFACTURING COMPANY** 3250 S. Western Ave. CHICAGO

RED CROSS EMPIRE FURNACES

Manufactured By

CO-OPERATIVE FOUNDRY COMPANY

ROCHESTER, NEW YORK

RED CROSS

RANGES FURNACES

Trade Mark Reg. U. S. Pat. Off.

Red Cross Products

Red Cross Empire Furnaces; Red Cross Ajax Furnaces and the Red Cross Furnola Heating Unit.

Red Cross Gas Ranges; Red Cross Combination Ranges; Red Cross Coal Ranges and Oil Stoves.

See Pages 384 and 428.

A complete line of high grade cooking and heating equipment.

The Red Cross Empire Furnace

A Furnace which would give maximum heating efficiency at minimum cost of installation and upkeep was the dominant idea in designing and building the Red Cross Empire.

The Red Cross Empire embodies in its construction every feature essential to "Make Good Heating Certain," but it is devoid of expensive frills and novelties. It is a distinct help in the rental or selling value of any home.



Red Cross Empire with Steel Radiator-Castings only.

The result is that it has established an enviable reputation for genuine heating efficiency, fuel economy and durability second to none.

An abundant supply of warm air is delivered by the Red Cross Empire Furnace because of its extra large radiating surface. The size and weight of its various parts are carefully proportioned to give maximum radiation with a resulting fuel economy.

Construction

Only the highest grade of tested metals are used in Empire Furnace construction. Each section is carefully fitted to insure quick and easy assembly. Deep cup joints where the fire pot, combustion dome and radiator join together allow for thorough and permanent cementing—the Empire is absolutely dust-proof and gas-tight. The ash pit, fire pot, grates and combustion dome in the Empire are all sturdily built; extra heavy where needed and of the correct shape to insure utmost heating efficiency. The casings are correct in proportion to the size of furnace, neither too large nor too small, giving the correct free air passage.

Sizes

The Red Cross Empire is made in a complete range of sizes to fit all ordinary warm air heating requirements. It is made with fire pots from 18 to 26 inches in diameter; with Steel or Cast Iron Radiator and in High or Low Construction Type. It is equipped to burn all fuels including wood for which a flat wood grate is furnished extra.

Steel or Cast Radiator

The selection of either a Steel or Cast Radiator is largely a matter of preference and buying habits. The Empire is furnished with either type and both styles are famous for their large radiating capacity and the efficiency with which they deliver heat.

All possible heat units are extracted from the products of combustion in the Empire radiator — this means fuel economy.



Red Cross Empire Cased View

High Construction Style

Pictured to the right, this is the regular type of furnace and for use in all cellars of regulation height.

Low Construction Style

Pictured below, this type Empire is for use in low and shallow cellars. It may be installed in a cellar as low as 4 feet 9 inches and still give good pitch to the warm air pipes.



Red Cross Empire Cased View Low Construction Style

Guarantee

When installed in accordance with the Standard Code of Installation recommended by the National Warm Air Heating and Ventilating Association, the Red Cross Empire Furnace is unconditionally guaranteed to give satisfaction. This is covered by a double guarantee bond, signed by the dealer installer and the manufacturers.

Engineering Dept. Service Catalogs

This company is at all times ready and willing to co-operate in solving heating problems. The service is free—just send for a Sketch Blank and Plan Sheet or send your blue prints! Send them insured parcel post! Complete catalogs on Red Cross Furnaces sent to any recognized builder upon request.

For further details and literature, write to: **CO-OPERATIVE FOUNDRY COMPANY, Rochester, N. Y.**

The NEW VICTOR Boiler Plate Furnace

With Intercepting Heat Conveyors—A Greatly Improved Type of Radiator

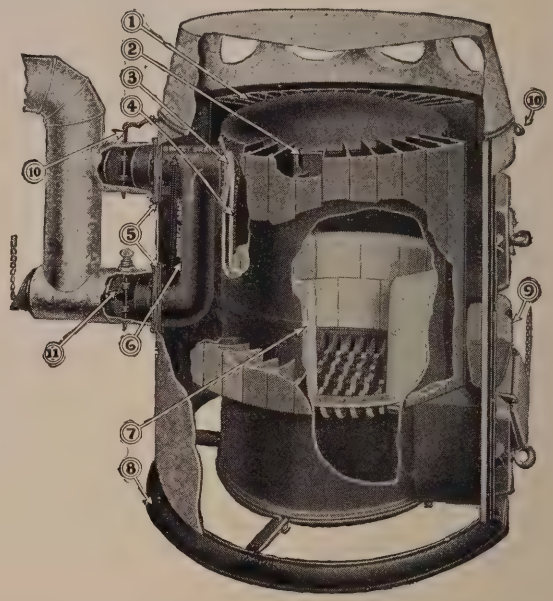
Manufactured By

HALL-NEAL FURNACE COMPANY

1322-26 N. Capitol Avenue, Indianapolis



20 percent. greater efficiency—1/5 less fuel.



Victor Boiler Plate Furnaces with Intercepting Heat Conveyors—a new and improved type of radiator—have much greater heating efficiency than furnaces of conventional design, making savings in fuel consumption which will pay the cost of the furnace over and over during its lifetime.

This increased heating efficiency also causes much more rapid air movement, greatly improving ventilation. The very great fuel saving obtained means less firing and very little attention to regulation, and less ashes to be removed.

Greatly Improved Radiator

The greatly improved radiator design of the new Victor Furnace—called Intercepting Heat Conveyors (patented January 2, 1923)—has three times the radiating surface obtained by conventional designs. It eliminates obstruction to air movement, and it does away with soot-clogged radiation, because the smoke does not pass through this new type radiator.

You will find the New Victor Boiler Plate Furnace the most satisfactory equipment you can put into your new home. We feel the utmost confidence in making this assertion because of the great praise for the performance of this furnace that has come to us from hundreds of home owners now using it. The New Victor Boiler Plate Furnace is well built in every detail, and it will last the lifetime of a home. Many of our furnaces of similar materials and workmanship are in service now after more than 20 years of constant use, and this new and improved design will prove more durable than the old type, because of the improved radiator.

For the investor building to sell, the New Victor Boiler Plate Furnace will be a great asset. This efficient heating plant will help make a property sell promptly, and the New Victor Boiler Plate Furnace costs no more than any other good furnace.

Easy to Install

The design of the Victor Furnace makes it easy to install. The two section dome can be moved through any stairway into a basement. Other parts, too, are easy to handle. The Neal sectional casing goes together quickly, and its patented joints make the casing smoke tight and dust tight.

See your Victor dealer—or write to us for the name of the one located nearest to you.

Victor Boiler Plate Furnaces are built of the best materials, and fine workmanship in every detail make them give the longest service, with the greatest freedom from trouble of any kind.

1. Intercepting Heat Conveyors (Pat. Jan. 2, 1923) are an advanced radiator design giving remarkable increases in furnace efficiency. This new type radiator cannot clog up with soot.

2. The Intercepting Heat Conveyors are mounted on each side of the furnace simply by hanging them on welded hooks.

3. The strongly reinforced flanges holding the flue section to the furnace are air-tight, smoke-tight and gas-tight.

4. A heavy plate at the point of greatest fire strike protects the furnace against all possibility of damage.

5. Where the flue connections pass through the furnace casings, gas-tight, smoke-tight and dust-tight flanges are used.

6. The flue connection provides a direct draft to start a fire quickly and diving draft for greatest heating efficiency when the fire is well developed.

7. A 2 inch lap joint between the two sections, 7 inches below top of fire brick, insures against smoke or gas entering the circulating air.

8. The base ring of the NEW VICTOR Furnace is one piece casting of such great strength that the furnace may be mounted over a pit if desired without using a supporting pillar in the pit.

9. The water pan is conveniently placed and of large size.

10. The flue damper is controlled from the front of the furnace, by a simple and positive device which is easily and quickly adjusted as required.

11. Lower smoke damper is to be adjusted according to strength of draft and fuel used, and does not require further attention.

The fire bowl is lined with heavy fire brick, closely fitted, giving an average length of service of 15 to 18 years without replacement.

See one Victor Furnace in operation and you will be convinced.

For further details and literature, write to: **HALL-NEAL FURNACE COMPANY** 1322-26 N. Capitol Avenue Indianapolis, Ind.

MONCRIEF FURNACES

Manufactured by

THE HENRY FURNACE & FOUNDRY CO.
CLEVELAND, O.

BRANCH SALES OFFICES

Atlanta, Ga., Moncrief Furnace Co. Batavia, N. Y., F. H. Hanlon Dallas, Tex., Moncrief Furnace & Mfg. Co. Kansas City, Mo., Johnson Furnace Co.
New York City, E. L. Garner, 177 23rd St., Jackson Hts., Long Island Wichita, Kans., Moncrief Furnace & Sheet Metal Co.
Muskegon, Mich., H. D. Crandall, 2024 Estes St.

THE HENRY FURNACE & FOUNDRY CO.

Alliance, O., Peoples Bank Bldg.
Ashtabula, O., 52 Center St.
Battle Creek, Mich., 37½ So. Madison St.
Canton, O., 915 Third Ave. N. E.
Fort Wayne, Ind., 2102 So. Calhoun St.
Freeport, L. I., N. Y., 49 W. Merrick Rd.
Indianapolis, Ind., 947 Massachusetts Ave.
Lansing, Mich., 532 E. Michigan Ave.
Lima, O., 732 So. Main St.
Lorain, O., 243 E. Erie Ave.
Louisville, Ky., 113 No. 5th St.
Muncie, Ind. 837 So. Walnut St.
Nashville, Tenn., 145 2nd St., North
Pittsburgh, Pa., 105 Federal St., N. S.
South Bend, Ind., 416 So. William St.
Toledo, O., 1318 Adams St.
Zanesville, O., 531 Market St.

THE ADVANTAGES OF WARM AIR HEATING

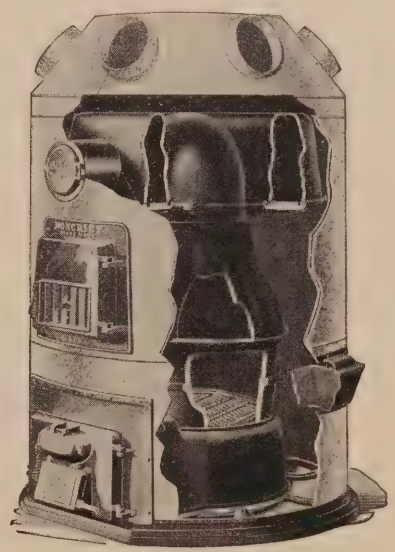
The warm air furnace is the most popular heating plant for homes because it is less expensive to install—and is more economical, convenient and healthful than any other system. Low first cost and economy are not the most important advantages. The cold air return system, an essential part of every correctly installed warm air plant, maintains a gentle circulation of warmed air that makes for uniformity of temperature everywhere throughout the house. The floors are always warm and there are no cold spots near windows or in remote corners.

Every Moncrief Furnace has a large water pan for humidifying, or moistening the air automatically as it is warmed. Properly humidified air of 65° is more comfortable than dried out air of 75°. Heating engineers estimate that 25% of the fuel is burned in adding these last ten degrees.

In flexibility, or responsiveness, a warm air heating plant is unequalled It will give additional heat quickly after opening the drafts, or subside just as quickly on closing them.

A warm air heating plant is so simple that there is practically nothing to get out of order. The registers in the living rooms are much less noticeable than radiators and take up no space at all.

A warm air furnace should be larger than required for ordinary temperatures so that it will not have to be forced to provide heat in very cold weather. The warm air pipes should be of ample size, likewise the cold air returns. A furnace system of ample specifications will prove more durable than any other kind of heating system.



A MONCRIEF FURNACE FOR EVERY HEATING NEED

Moncrief Furnaces are made in all sizes and of all types—Pipe, Pipeless and Three-pipe.

The most popular Pipe Furnace is that shown in illustration—called the "500-A" series. It includes all the Moncrief features and is distinguished by the extra large feed door to admit any kind of fuel—and the Moncrief burns all kinds of fuel to equal advantage.

For thirty years this company has been making furnaces. This is an assurance that the Moncrief is a tried and proved furnace, of balanced design and correctly proportioned. The castings are of fine grey iron, well finished and smooth. The sections are individually ground and fitted, so that each furnace is assembled as a unit before shipment. In every way the Moncrief is a superior furnace.

MONCRIEF Warm Air Heating Pipe and Fittings

We also sell practically everything needed for a warm air heating installation. Our pipe and fittings factory is one of the largest in the country for the manufacture of single and double wall pipe, elbows, angles, boots, boxes, and specialties. All materials used are of first quality, and our products are distinguished by remarkable uniformity and accuracy.

Large stocks enable us to make prompt shipment of all items

BUILDERS—Our Engineering Department Will Help You, Without Charge

Send in your plans for any job. Our Engineers will be glad to lay out a complete warm air heating system, according to standard code, specify all materials, and quote you detailed costs complete. This eliminates all guess work and enables you to guarantee the heating plant. We make no charge for this service.

Moncrief Furnace Specifications

Fire pot cast in two pieces to allow expansion and contraction. Straight sides prevent ashes clogging, and allow fire to burn freely.

Ash pit, roomy with sloping bottom, easy to clean out.

Grate bars, triangular with three service sides. Easily replaceable.

Feed Section—one piece, extra heavy; no danger of burning out. Corrugated sides present extra radiating surface.

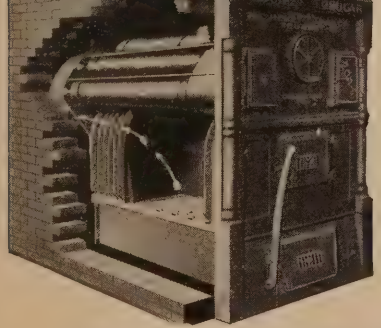
Large radiator with long fire-travel, delivers all the available heat.

Clean out and smoke outlet are cast as part of radiator, extend beyond casing — smoke and gas tight.

Double casing—dead air space, best kind of insulation.

All doors have beaded edges and are ground straight and smooth for tight fit.

All joints are carefully ground and fitted. No danger of smoke and gas escaping into air chamber.



MONCRIEF TUBULAR FURNACES

For Large Residences, Churches, Schools, Stores, Garages, Etc.

The Moncrief Tubular competes most favorably for heating buildings hitherto deemed necessary to be heated by steam. The first cost is much less than that of a steam plant, in many cases almost half. The fuel consumption is lower. A low grade of fuel can be burned to advantage.

Air is humidified automatically, resulting in more healthful heating. Humidified air is more comfortable at lower temperatures. This means economy.

One of the greatest advantages, especially for churches and schools, is the quickness of heating. In ordinary winter weather it is common to heat the auditorium comfortably in from 1½ to 2 hours after starting the fire.

Garagemen appreciate the fact that the floors are warmed from the very first and the whole interior is kept uniformly warm.

Air circulation is positive and is controlled by electric fan.

Our Moncrief Tubular unit has the capacity of three standard 30 inch furnaces. Two or more tubular units may form a battery for the large installations.

For further details and literature, write to: **THE HENRY FURNACE & FOUNDRY CO., Cleveland, Ohio**

HESS WELDED STEEL FURNACES

Manufactured by

HESS WARMING AND VENTILATING COMPANY

1207-1227 South Western Ave., Chicago

Products:

This company manufactures the Hess Welded Steel Furnaces for hot air heating in both pipe and pipeless types.

Hess Snow White Steel Medicine Cabinets and Mirrors are described on page 347.

(Trade Mark)

Description:

Hess furnaces operate efficiently on any kind or grade of fuel, their construction making them proof against any leakage of smoke, gas, dust, odors, etc. They can be easily arranged for utilizing natural or artificial gas as fuel, and any of the numerous oil burners can be used with the greatest efficiency.

Construction:

The Hess Welded Steel Furnace is not a sectional furnace. There are no cemented or bolted seams to become leaky. The entire inner body, or radiator, is made of heavy annealed steel sheets—No. 12 gauge—which is about ⅛-inch thick. These steel sheets are firmly clamped together and riveted at intervals. An intense heat is applied with an acetylene-oxygen torch, or an electric arc is applied where the plates meet, until the metal softens and the plates fuse together in one continuous body of steel without a joint of any kind, making an absolutely and permanently tight construction that cannot leak gas, smoke or dust, regardless of the kind of fuel used.

Fire Box: The fire-box is square with vertical sides, which permits a deep, even fire and perfect combustion of fuel. It is set close to the front of the furnace making the work of caring for the fire easy and convenient. The grate surface extends under the entire fire which prevents fire going dead around the edges or in spots. It is lined with heavy fire-brick slabs about 2½ inches thick, similar to the slabs used to line cupolas and blast furnaces for the melting of iron and steel. These slabs rest upon steel brackets and clamps hold them in position at the top so they cannot fall out of place, but they can easily be removed and replaced when necessary as they readily pass through the firedoor and drop into position without the use of tools. Firebrick will withstand ten times the heat that will melt cast iron so it readily resists any heat produced in a furnace.

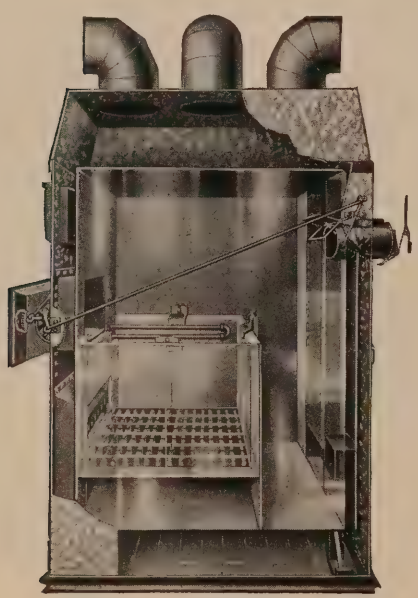
Grate: The grate is made up of a series of parallel rocking bars with square ends projecting through the front of the furnace. Each bar may be agitated or turned over completely, independently of any other bar, permitting the cleaning of any part of the fire without disturbing any other part. For burning lignite or soft coal slack, special grates with fine mesh openings are furnished. An efficient burner for natural or artificial gas can be supplied at a small additional cost.

Water Pan: The water pan is placed just above the fire-door where it heats quickly and in ordinary winter weather will evaporate four to eight gallons of water daily—sufficient to properly humidify the atmosphere and render healthful heat and reduced fuel bills.

Double Casings Prevent Heat Loss: To prevent loss of heat in the cellar, Hess furnaces are built with a double casing, one within the other, making a double air chamber. The inner casing or lining is of black steel and a current of cool air is continually passing through the space between it and the outer galvanized steel casing and conveying the heat to the rooms above instead of radiating it into the cellar through the sides of the furnace. The two largest Hess models—Nos. 58 and 60—are provided with two immense air flues, passing vertically through the radiator, back of the firebox. These flues increase the radiating surface very materially and their vertical position increases the velocity of the air passing through, materially increasing the heating efficiency of these larger furnaces.

Cleanout Door: The cleanout door is located at the base of the smoke pipe, and as the only place where soot can accumulate is in the settling chamber back of the firebox—an open square space just like the ashpit—every particle of soot, ashes and dust are quickly and easily removed through the cleanout door.

Water Coil: A water coil for heating the hot water tank can be supplied at an additional charge. Special water coils for heating hot water radiators located in distant or much exposed rooms difficult to reach with the usual tin hot air pipes can be furnished.



Hess Pipe Furnace

Hess Pipeless Furnace:

In this type of furnace, the interior arrangement of radiator, fire-box, grates, smoke outlet and doors is exactly the same as in the Hess Pipe Furnace. The difference lies in the arrangement of the outer casings and its connection with the heat and air supply register. The furnace is set directly under a large register face or grating, divided into two sections—a central heat outlet entirely surrounded by a return air inlet.

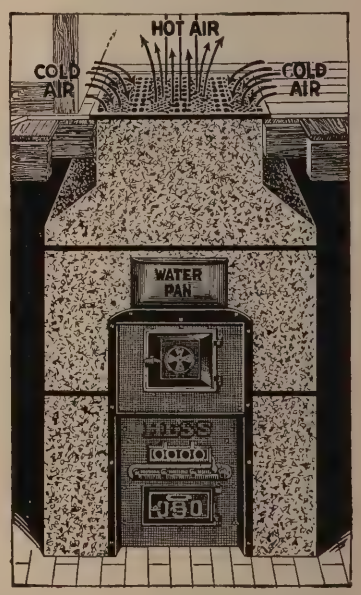
The pipeless method of heating while exceptionally economical in fuel consumption, is not adapted to all types of homes. Best results are obtained in houses where the rooms are connected by liberal sized openings instead of ordinary doorways. We will gladly check over any layout sketch of rooms and frankly state whether or not a pipeless furnace will heat satisfactorily.

Sizes:

Hess Welded Steel Furnaces are made in a variety of sizes for the heating of homes up to twenty rooms.

Service Department:

Our Service Department is available, without charge, to assist contractors and builders in laying out efficient and economical heating systems. Send for our booklet "Modern Furnace Heating" an unusually exhaustive treatise on the subject of hot air heating and containing complete details of Hess Welded Steel Furnaces.



Hess Pipeless Furnace

HOLLAND FURNACES

Our Product

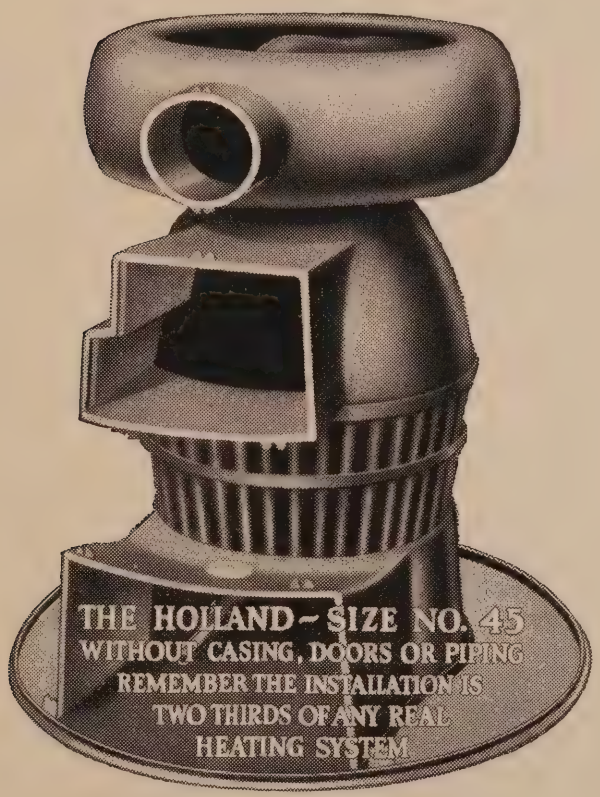
The Heart of the Home

Made By

HOLLAND FURNACE COMPANY

HOLLAND, MICHIGAN

WORLD'S LARGEST INSTALLER OF FURNACES



TRUE HOME COMFORT POSITIVELY GUARANTEED BY THE HOLLAND FURNACE COMPANY

Every user of a Holland Heating System knows exactly where to place **all** of the responsibility.

The World's Largest Installers of Furnaces are **directly** and **solely** responsible. And this includes the installation. Holland Men—Holland trained—do the installing. They do nothing else.

Compare this plan with the loose, irresponsible plan of the manufacturer who permits any plumber, tinsmith, or side-line man to perform the most important part of a heating service.

If you consider Heating the most vital element in home-comfort, which you undoubtedly do, why not put the responsibility where it belongs? All of the responsibility!

The Holland Humidifier Helps Keep You Healthy

With the Holland Warm-Air Circulating System you have all the heat you want and all the humidity you want. And best of all, the air in the house: **clean** air, moistened—is kept in constant circulation! The house is delightfully ventilated.

Steam, Hot-Water and Vapor can provide heat—at a price. That is **all** they provide. And old-fashioned "Hot-Air" provides still less.

It is the difference in heating-service that has made the difference in heating concerns.

There is no mystery about the growth of this organization, which began only nineteen years ago, and is now much the largest concern of its kind in the world.

For further details and literature, write to: **HOLLAND FURNACE COMPANY, Holland, Mich.**

MUELLER WARM AIR FURNACES
MUELLER GARBAGE BURNERS

Manufactured By

L. J. MUELLER FURNACE CO.

Established 1857

GENERAL OFFICES
297 Reed Street, Milwaukee, Wis.

BRANCH OFFICES

ST. LOUIS, MO., 1409-11 Olive St.
DETROIT, MICH., 426 Jefferson Ave. E.
CHICAGO, ILL., 60 E. Lake St.
MINNEAPOLIS, MINN., 631 Third Ave. S.
ST. PAUL, MINN., 158 E. Fifth St.
SEATTLE, WASH., 1929 Second Ave.
PORTLAND, ORE., 53 Fourth St.
SALT LAKE CITY, UTAH, 331 So. Rio Grande St.
FORT COLLINS, COLO.

Products

All-Cast Warm Air Furnaces, Pipe and Pipeless types; Horizontal Tubular Heaters for large schools and Churches; Hot Water Supply Boilers and Garbage Burners; Steam and Hot Water Boilers.

For Registers, Grilles and Mushroom Ventilators see page 380.

For the Mueller Furnacette (Cabinet Heater) see page 386.

Mueller Warm Air Double Radiator Furnace

We guarantee this all-cast furnace to contain more direct heating surface than any other heater of equal grate area.

Made with single door in seven sizes, portable and brick set; and with double fire door (for firing large blocks of wood) in six sizes portable and brick set.

Inside diameter of firepot ranges from 20 to 33 inches inclusive; casing diameter from 40 to 66 inches.



Double Radiator Furnace Sectional view. Properly placed moisture pan humidifies warm air adequately.

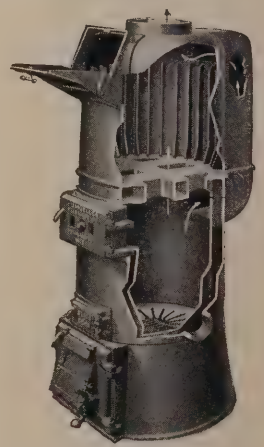
Castings fit together with cup joints; no bolts, nuts or screws. Construction is proof against gas or soot leaks. Vertical pipe construction of double radiator makes heater self-cleaning. Every inch of combustion chamber, dome and double radiator is absolutely fire surface. Burns any kind of fuel economically. Especially adapted for oil burning installation.

Free Engineering Service

Mueller Furnace installations are planned by skilled, competent heating Engineers. A careful study of the heating requirements for each individual installation is made, and recommendation given for a heater that will do the work efficiently and economically.

This service is free to purchasers of all types of Mueller Heating Systems.

Mueller Combination Hot Water Supply Boiler and Garbage Burner



Garbarge Burning Hot Water Supply Boiler

Designed to dispose of household garbage with the same fire that furnishes an abundance of hot water quickly and economically for domestic use. Simple in operation, has but few parts and is quickly and easily erected. Draw-center shaking and dumping grate with ample air space. Pea or slack coal can be used. Regular hot water supply boiler with addition of heavy cast iron garbage chamber.

Special flue construction carries smoke and gas to the rear and over top of garbage chamber until garbage is dried. The garbage is then burned by flame passing through the water-filled garbage grate below and up through the garbage.

Superior to the ordinary incinerator because of ability to supply hot water for domestic requirements. Erected and tested at factory before shipment; cored castings tested under 250 lbs. pressure.

Mueller Convector (Pipeless Furnace)



Mueller Convector (Pipeless Furnace)

Ideal for use in homes adapted to pipeless method of heating. Usually installed in a day, without tearing up the house. The properly proportioned register face, centrally located in the home, introduces a great volume of moderately warmed moist air into the rooms and draws the cooled air from the floors back to the heater maintaining a constant circulation throughout the rooms to be heated. Burns any fuel. Made in four sizes each of single and double door types.

NUGENT'S WARM AIR FURNACES

MULTIPLE REGISTER TYPE

Established 1878

Made By

THOS. NUGENT SONS, Inc.

223 East 80th St., New York City

SINGLE REGISTER TYPE

Established 1878

Products

For nearly half a century Thomas Nugent (the founder of the company) and Thomas Nugent's Sons (his successors) have concentrated on one subject —the possibilites of warm air heating. As a result of this intensive study the furnaces designed by this company possess distinctive and advantageous features not found in any other makes of furnaces. Two types of warm air furnaces are made—the multiple register type in which a separate register is used in each of the rooms to be heated: and the single register (or pipeless) type in which one large register installed in the floor directly over the furnace heats the whole house.

Multiple Register Furnace

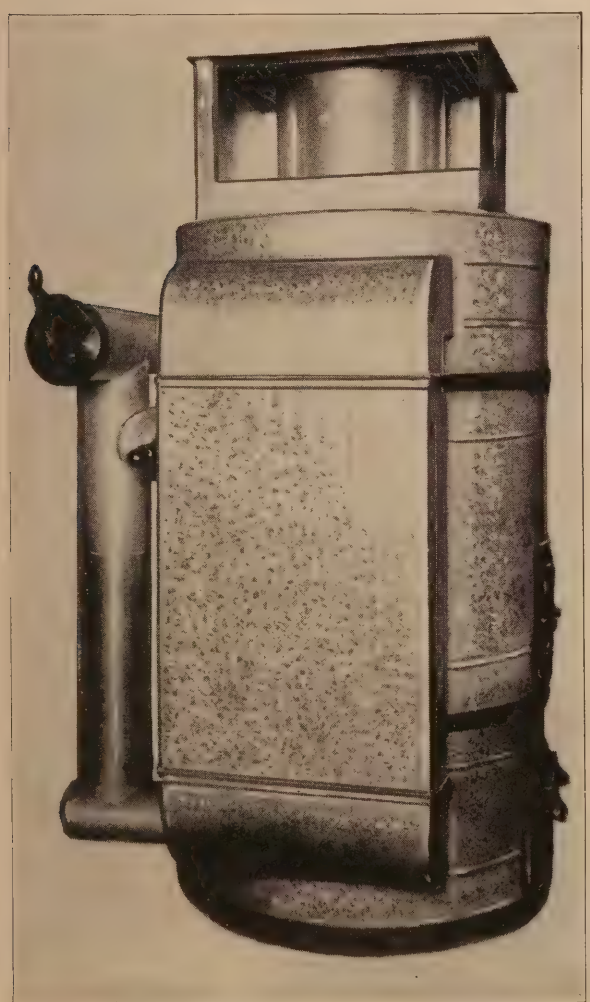
The illustration at right shows a Nugent Furnace of the Multiple Register Type, with galvanized iron jacket removed. This furnace is very substantial in construction and all parts as far as practicable are made of refined wrought iron, or steel, which are far superior to cast iron as heat radiating surfaces.

An indirect as well as direct draught is provided which results in better regulation of the fire in moderate weather, as well as in fuel economy.

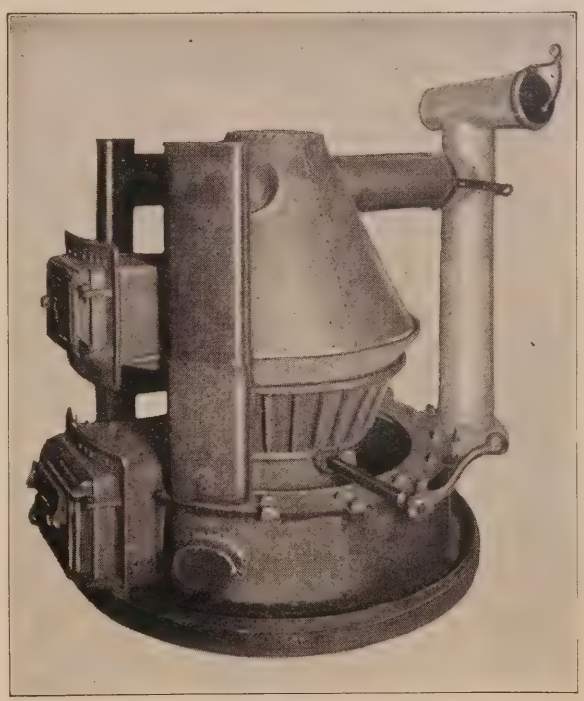
Provision is made for humidifying the warm air, while radiating pipes and a radiator damper of unique design greatly increase the efficiency of the furnace.

These furnaces are made in four sizes, designated by the numbers 9—3—10 and 25, the specifications of which are as follows:

Size	9	3	10	25
Diameter Fire Pot	16″	20″	26″	29″
Diameter Casing	30″	40″	48″	53″
Height of Furnace	5′-6″	5′-6″	5′-6″	5′-6″
Size Smoke Pipe	7″	7″	8″	8″
Heat Pipe Capacity, Square Inches	312	418	600	835



SINGLE REGISTER (or PIPELESS) FURNACE



MULTIPLE REGISTER FURNACE
(Galvanized Iron Jacket Removed)

Single Register (or Pipeless) Furnace

For the small home (and for the small church, store, public garage, theater, etc.) the Pipeless Furnace affords the best method of heating, being much lower in first cost and in cost of installations and equally efficient as furnaces requiring numerous warm air pipes and registers, provided the building to be heated is one that permits of free circulation of air throughout its interior.

This is the important consideration in determining whether a Pipeless Furnace can be used to advantage, for in this type of installation the whole volume of heated air is delivered to one centrally located room, or hall, and quickly spreads throughout the house if free passage is provided from room to room.

Only one large register is required in this type of installation and this is divided into two parts—a central portion through which the warm air rises to the room above the furnace and an outer section down which the cooler air is drawn to the furnace to be released and again delivered to the room above. There is, therefore, a constant circulation of air throughout the house, due solely to convection currents arising from the relative temperature of the freshly heated air and the cooler air that is displaced by it.

Nugent's Pipeless Furnaces are made in four sizes as follows:

Size	9	3	10	25
Diameter Fire Pot	16″	20″	26″	29″
Size Smoke Pipe	7″	7″	8″	8″
Diameter Casing	30″	40″	48″	53″
Outside Diameter Circulating Ducts	.....	.....	.....	.....
Size Floor Grating	22″x24″	24″x27″	30″x30″	30″x36″
Size Warm Air Pipe	16″	18″	22″	24″
Capacity Cubic Feet Divided Space	9,000	11,000	16,000	29,000
Capacity Cubic Feet Undivided Space	11,000	14,000	22,000	40,000

They are easy to install and give perfect satisfaction when used in a building suitable to this system of heating.

Advice Cheerfully Furnished

Building contractors are cordially invited to avail themselves of our many years of experience in warm air heating. Send us rough sketch of house to be heated (with dimensions of each room, including ceiling height) and we will gladly indicate size and type of furnace that will give the best results and furnish you with all other information necessary to make a satisfactory installation.

For further details and literature, write to: **THOMAS NUGENT'S SONS** 223 East 80th St., New York City

OAKLAND FURNACES—"For Home Folks"

Made by

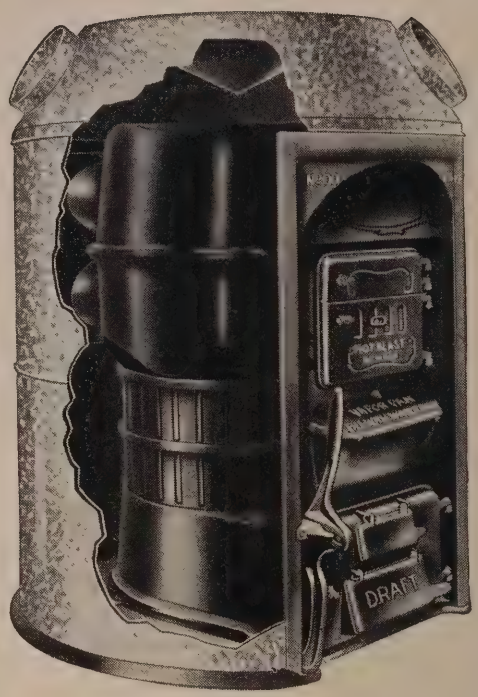
OAKLAND FOUNDRY COMPANY

Belleville, Illinois

Products

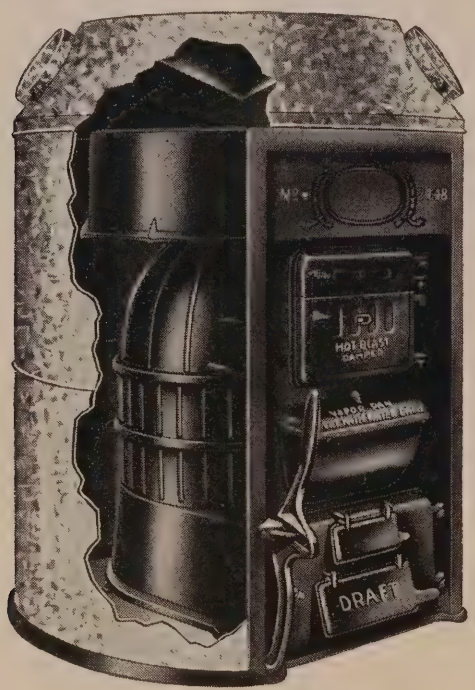
This company manufactures Warm Air Furnaces, Stoves and Ranges, and Laundry Tank Heaters. Full information and prices on any of these products will be mailed promptly on request.

(Trade Mark)



Oakland Furnaces

Here is a real furnace at a price folks can afford to pay. Compare it, point by point, with any warm air furnace you are familiar with and you will find it thoroughly modern in design and construction and with some distinctive features of its own that appeal strongly to people who want a reliable and economical heating plant.



Sizes and Capacities

Made in various sizes and capacities so that a furnace exactly suited to the house to be heated can be selected. Send for catalog.

Laundry Tank Heater

The King Laundry Tank Heater, illustrated below, furnishes an abundant supply of hot water at the cheapest known cost for fuel. Write for prices and particulars.



No. 80-A
King Laundry Tank Heater

Fewer Joints

Two objectionable joints usually found in furnaces have been eliminated in the Oakland by fitting the fire doors directly on to the edge of the feed throat, which is extended through the upper front, and the ash pit door onto the edge of the main ash pit which is extended through the lower front. All doors are ground to a true fit on a surfacing machine insuring tight-fitting, dust-proof doors.

Roller Bearing Grates

The Oakland Furnace has roller-bearing grates making it the easiest shaking furnace on the market.

For further details and literature, write to: **OAKLAND FOUNDRY COMPANY, BELLEVILLE, ILL.**

"Richardson" "Perfect" Heating and Cooking Apparatus

Manufactured by

Since 1837

RICHARDSON & BOYNTON CO.

Factory Dover, N. J.

Executive Offices: 260 Fifth Ave., New York City

Chicago—3639-45 S. Ashland Ave.
Philadelphia—1308 Arch St.
Providence—58 Exchange St.
Boston—94 Federal St.
Rochester—70 Exchange St.
Buffalo—220 Delaware Ave.
Cleveland—2032 East 22nd St.
Albany, N. Y.—100 State St.
Detroit—4472 Cass Ave.
Minneapolis—100 North 7th St.
St Louis—705 Olive St.
Springfield, Mass., 194 Chestnut St.
Pittsburgh—1205 House Building
Newark, N. J.—585 S. 21st Street

Products

This Company, established in 1837, makes an exceptionally complete line of heating and cooking apparatus, including "Perfect" Warm Air Heaters in both fully piped and pipeless types; "Richardson" round and end feed boilers for steam, hot water and vapor systems; "Perfect" cooking ranges for coal, gas or a combination of both; "Richardson" Hot Water Laundry and Tank Heaters; "Richardson" Automatic Garage Heating Systems, all of which are fully illustrated and described in literature gladly sent on request.

Some types of Warm Air Heaters and Boilers are illustrated on this and following pages.

For Gas, Coal and Combination Ranges, see pages 430-433.
For Hot Water, Laundry and Tank Heaters, see page 400.
For Round and Sectional Boilers, see pages 390-393.

Richardson "Perfect" Warm Air Heaters

These are made in two types—the multi-pipe and pipeless.

Advantages of a Warm Air Heating System

The first cost of installing a warm air heating system is considerably lower than steam, hot water or vapor vacuum pressure systems. There are fewer parts which may have to be replaced over a period of years and the life of the equipment is as long as that of any other system.

Tests have proved that warm air heating uses less coal because heat is more quickly transferred to air than to water, and "Perfect" Warm Air Heaters are particularly economical because of the correct relation of grate area to heating surface.

Warm air heating more nearly approaches the atmospheric conditions of a bright, sunny day than any other form of artificial heat. In the late spring and early fall a small fire will quickly take the chill from the house.

Warm air heaters as scientifically and carefully constructed as are "Perfect" Heaters are dust proof as there are only three joints and these are deep cup joints so perfectly fitted and cemented that dust and gas cannot escape.

When a warm air heater is properly located, when the arrangement for fresh air supply and risers are carefully worked out uniform temperature can be maintained throughout a house. We are glad to co-operate with contractors and prospective builders to help them install an efficient warm air heating system.

Construction

There are many valuable features which are incorporated in every "Perfect" Warm Air Heater which are closely identified with the name of Richardson & Boynton Company and which make for efficient, satisfactory and economical heating.

Firepots: All "Perfect" Warm Air Heaters have straight-side firepots, and a correspondingly larger grate area—this means less coal burned and less attention to the fire. There are no dead spaces in the fire which insures more heat and no waste of fuel.



"Perfect" Straight Side Firepot. No dead spaces and larger grate area



Sloping Side Firepot with same top diameter. Has smaller grate area and dead coal space

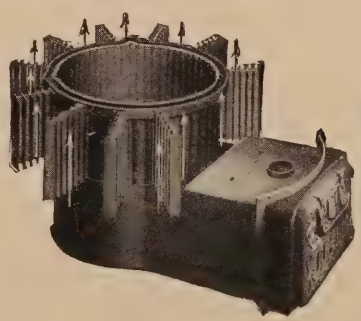
Grate Bars: "Perfect" Triangular Clinker Cutting Grate Bars are used. They shake in pairs and a slight motion clears the fire. Three straight, reinforcing edges extend the whole length of the bar and gives it added strength to prevent warping or breaking. These edges are clinker cutting. Shaking end of bars is strengthened by a steel ring and the shaker fits into the end of the bars instead of over it.



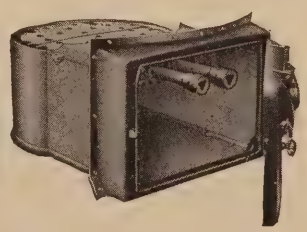
Cup Joint: There are only three of these full 1½-inch cup joints in a "Perfect" Warm Air Heater—between base and firepot, between firepot and body, between body and radiator. Ample space is allowed for expansion and for generous cementing. The illustration plainly shows why "Perfect" Heaters are proof against the escape of gas or dust.



Cup Joint

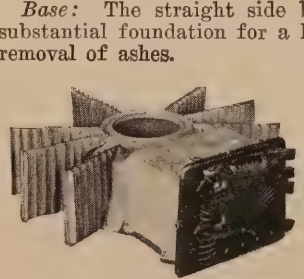


Base and Firepot



Base

Base: The straight side base, 14 inches high, provides a substantial foundation for a heavy heater and allows the easy removal of ashes.



Body with Flanges

Body: Heavy ribbed, of unusual strength and with proper allowance for complete combustion of fuel.

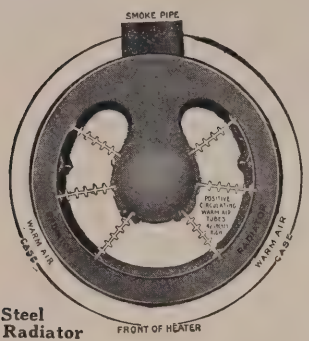
The body of "Perfect" Positive Heaters are fitted with flanges which increase the heating surface and fit directly over flanges of firepot. Openings are provided for pipe connections when domestic water is heated by same fire.



Firepot with Flanges

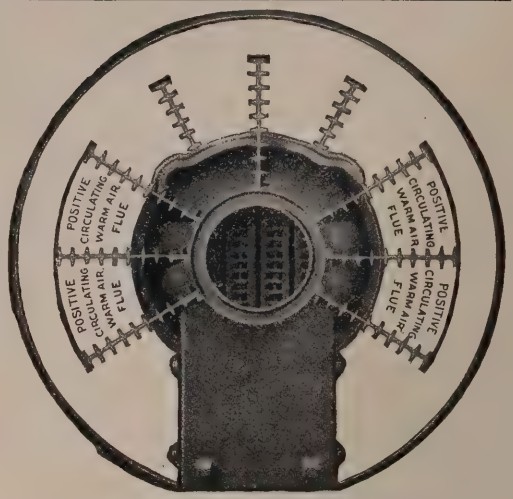
For further details and literature, write to: **RICHARDSON & BOYNTON CO., NEW YORK CITY**

Steel Radiator



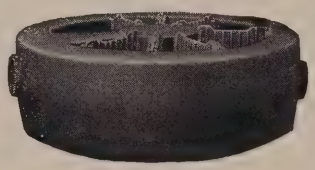
Steel Radiator

Made of 14-gauge steel, 17 inches high and will last for years. Cup joints in top and bottom plates are gas tight. The "Perfect" Positive Heater has flanges in air channel which fit directly over body flanges and form a complete air column of peculiar shape extending from ashpit to top of heater. These air columns drive air with great force by rapid heating. Flue travel of from 8 to 13 feet is divided by a horizontal diaphragm which forces the hot gases to pass twice through the radiator before escaping through chimney. Radiator is easily cleaned by entrance from front. Flue passages are large for complete combustion to prevent backfiring or explosions.



View from top of heater to show radiating surfaces

Cast Iron Radiator


Cast-Iron Radiator

A heavy one-piece radiator, 15 inches high. No possibility of gas leakage, or breakage through unequal expansion. It is impossible to equal the advantages of this one-piece radiator by two-piece radiator construction. The internal construction gives unusually long flue travel and convenience in cleaning.


Water Pan

Water Pan

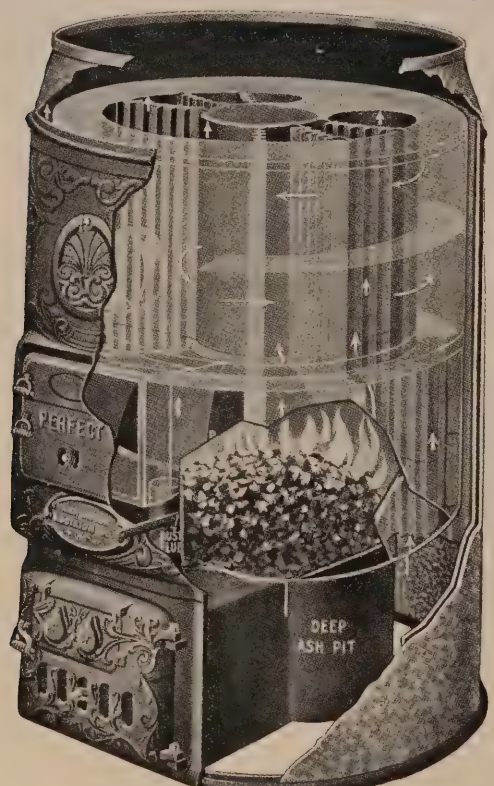
Is located in side of casings where it properly humidifies the air as air circulates more freely here than in front of heater, and carries more moisture to the rooms. An automatic valve that keeps water pan full can be had at a slight additional cost.

Dimensions:

No.	Diam. Fire Pot In.	Grate Area In.	Steel Diam. Radiator In.	C. I. Diam. Radiator In.	Diam. Cases In.	Hght. of Panel Front In.	Size Smoke Pipe In.	Pipe Capacity Sq.In.	Shipping Weight Less Cases Lbs. Steel	Shipping Weight Less Cases Lbs. C. I.
2901	21	283.53	35½	35	46¾	55¼	8	484	1245	1365
2902	24	346.36	40	39	52¾	56⅛	9	626	1475	1625
2904	26	415.48	45½	43½	58	57½	9	812	1710	1955
2906	29	572.56	49½	48	61⅝	59¾	10	1024	2020	2240
2908	33	804.25	56½	54	68¾	62	10	1369	2640	2865

Note—The above ratings are based on a sufficient supply of air to the heater. For indoor air supply, figure 100 per cent, and for outside air supply, 80 per cent of the total capacity of the warm air pipes attached to the heater.


Flanges of firepot, body and radiator form these air tubes 42" high



2900 Series with Steel Radiator

Panel Front

Is large and heavy enough for work required but no wider than necessary for feed door opening. This feature means additional fuel economy.

Casings

26-inch gauge galvanized iron is used for casings which are lined with best quality bright corrugated tin for heat deflection. Air chamber between heater and casings is correctly proportioned and diameter of casings determined on that basis. Cast iron sectional rings offer sturdy support for casings and are easy to erect.

Dust Damper and Pipe

This connects the base and body and allows escape of dust when grates are shaken. Is operated by a damper handle extending through panel front just below feed door and prevents any dust going into rooms.

Fuel

"Perfect" Heaters can be equipped to burn gas, soft coal or wood, and are adaptable for installation of oil burners.

Accessories

Regular equipment includes No. 2 damper, poker and shaker. A perforated damper is included for soft coal.



2900 Series with Cast-Iron Radiator

"Perfect" Pipeless Heaters

The 200 series "Perfect" Heater is used in the pipeless heating system. Extensions to the panel front, larger casing rings, and the outer bonnets and cases complete the change. On account of its over-size air chambers this pipeless heater has proved extremely satisfactory. The capacities in cubic feet are carefully determined and guaranteed by us. They are conservative so that heater will do its work in extremely cold weather without more frequent fuel attention.

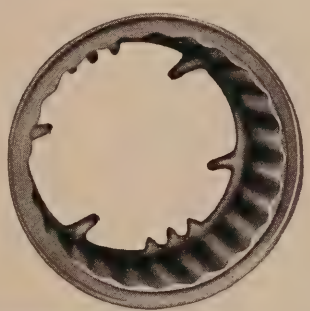


Base

The heavy 12-inch straight side base provides a substantial support for the heater and its height and design afford proper draft for the fire and permits easy removal of ashes. It is shipped as a complete unit. Four standard "Perfect" triangular grate bars are used.

Fire Pot

A straight, corrugated, heavy fire pot 12 inches high allows a full fire and one deep cup joint assures gas-tight connection with the base and body.





No.	Diam. Fire Pot In.	Grate Area In.	Diam. Radiator In.	Diam. Cases In.	Height of Panel Front In.	Size Smoke Pipe In.	Pipe Capacity Sq.In.	Shipping Weight Less Cases Lbs.
219	19	201.06	28	36	48⅞	8	300	745
222	22	283.53	30½	40	49¼	8	400	865
224	24	346.36	33½	44	50½	8	525	1015
226	26	415.48	37½	50	50⅞	8	625	1160
229E	29	572.56	40	53½	55	9	800	1540

Note—The above ratings are based on a sufficient supply of air to the heater. For indoor air supply, figure 100 per cent, and for outside air supply, 80 per cent of the total capacity of the warm air pipes attached to the heater.



Steel Radiator

Radiator is 15 inches high and made of 18-gauge steel. Cup joints in top and bottom are gas tight. The flue travel is greater than the average for getting the greatest heating value from the coal used. The large heating surface insures ample heat. The cleanout opening at the front of radiator permits easy cleaning.

Cast Iron Radiator

This is a heavy one-piece radiator, 12 inches high, and is recommended for soft coal or wood. It is far superior to the usual two-piece cast iron radiator and on account of its construction there is equal expansion throughout and no danger of breakage in use. Its internal construction permits the same long flue travel as the steel radiator.



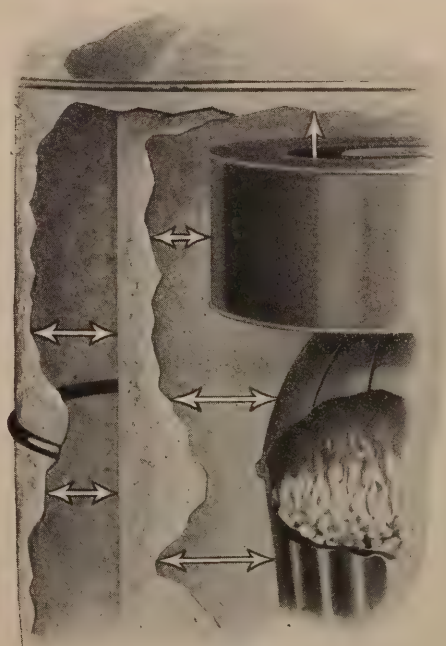


Body

A heavy ribbed body with proper allowance for complete combustion of fuel. Large single door for easy firing. Openings are placed to left of fire door for pipe connection when domestic water is to be heated by a coil. A full cup joint assures gas-tight connection with radiator.

Panel Front

Is built only wide enough to properly provide for feed door openings, thus assuring additional saving in coal as wide panel fronts usually cause a heat loss.



THE "PERFECT"
The Pipeless Heater with Extra-size Air Chambers

Note the great amount of space for air circulation. It is this liberality of air space that makes the "Perfect" the greatest Pipeless Heater.

Gilt Edge Warm Air Furnaces

Manufactured By

R. J. SCHWAB & SONS COMPANY

283 Clinton St., Milwaukee, Wis.

GILT FIRESIDE EDGE



A Contractors Furnace

To meet the demand of contractors and builders for a highly efficient furnace on a price basis, the Gilt Edge Fireside line was designed and developed. The Gilt Edge incorporated in the name of this heater stamps it as a product worthy of your confidence.

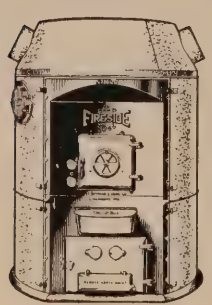
Construction

The Gilt Edge Fireside is a sturdily built furnace, superior in every detail of construction to competitive furnaces, selling at even a higher price. A one piece base plate —two piece firepot—heavy feed section—two piece all cast radiator, and double contact sealed points throughout make the Fireside easy to install, and thoroughly efficient. For convenient operation, the following features in design are incorporated:—large feed door—front knee-high water pan—large ash pit opening—a handy cleanout—locomotive type of flat bar grates, etc.

Gilt Edge Specifications:

Heater No.	Grate Diameter	Top Firepot Diameter	Height of Castings	Smoke Pipe Diameter	Leader Pipe Capacity	Casing Diameter	Shipping Weight
640	15″	19″	47″	8″	320 Sq. In.	40″	750 Lbs.
642	17″	21″	49½″	8″	425 Sq. In.	42″	950 Lbs.
646	20″	24″	51″	9″	575 Sq. In.	46″	1075 Lbs.
650	23″	27″	53½″	9″	750 Sq. In.	50″	1350 Lbs.

Oil Burner Installations



Oil burners are being installed in Gilt Edge Furnaces with a high degree of satisfaction. The double contact sealed joints do not allow for gas or odor leakage. The large feed door permits a ready installation of the burner. Quickly removable grates can be speedily replaced in case the burner ceases to function properly.

Accessories

An automatic humidifier filler can be purchased at a slight additional cost, and will relieve the bother of keeping the water pan filled.

Waba water backs illustrated below supplant the old fashioned pipe water coil. This type of water back has an extra large exposed heating surface, which insures an abundant supply of hot water at all times during the winter months.



In case it is advisable to install a small radiator in a garage, den or bathroom, a large size water heater built on the lines of the above pictured water back, and capable of carrying 100 feet of radiation, can be supplied.

Anti-Clinker Grates

Heavy, locomotive type of flat bar grates are used in all models of Gilt Edge Furnaces.

The furnace grates are the watch dogs of economy—if they are not constructed along proper scientific lines, a tremendous accumulative fuel waste will take place. Gilt Edge Grates are link-connected and in shaking rock with each other instead of away from and toward each other, as in the old style triangular bar grate. This feature of link hanging makes them practically anti-clinker in operation because of the grinding motion set up when agitation takes place.

Note the Heavy Flat Bar Grates and Simplified Method of Grate Hanging.



Gilt Edge Warm Air Furnaces

Manufactured By

R. J. SCHWAB & SONS COMPANY

283 Clinton St., Milwaukee, Wis.

The Straight Ribbed Fire Pot

GILTEDGE FURNACE



A Quality Furnace

Gilt Edge Furnaces have been on the market for almost fifty years and the present 500 Series is in keeping with the high quality standards of workmanship which have thoroughly established Gilt Edge Furnaces as a quality product.

The Average Home

For the average home, costing, from $2500.00 up to $15,000.00, warm air heating, without a doubt, proves most satisfactory. Clean, even tempered, humidified heat flowing through the furnace heated home provides for the health and happiness of the family, at a minimum cost.

Advantages of Warm Air

Probably the most appealing advantage of warm air heating is the economy not only in operation, but in the original installation, altho from a standpoint of healthful heat, warm air has the edge on every other type of home heater because of the constant circulation of air kept in motion thru the gravity system. A furnace installation, complete, costs about one-half that of a hot water or steam job, and because of the ready response of a furnace to draft control, a greater saving in fuel can be accomplished.

The Heart of the Furnace

On the furnace firepot rests the responsibility of providing the greatest primary heating surface and a careful inspection of Gilt Edge firepot construction will convince the most skeptical that every possible method has been utilized in designing the firepot to give maximum heating efficiency. Straight side, sturdy construction—extended ribs—each factor for proper efficiency has been amply provided for.



It Is Impossible for an Insulating Layer of Ashes to Accumulate Along These Straight Sides

Efficient Design

A furnace, must undergo changes in design from time to time to keep pace with modern theories of warm air heating. The Gilt Edge has been built in accordance with present day demands for efficiency and maximum ease of operation. A large, double feed door—an easily accessible clean out flue—a high ash pit door, making the removal of ashes a pleasure—are features which will be readily appreciated by home-owners and home builders.

Durable Construction

The life of those castings in a furnace which have to stand the gaff of numerous quick changes in temperature, depends entirely on the quality of the iron which goes into them. In manufacturing Gilt Edge castings, the finest grade pig iron is used. Extreme care in making the numerous laboratory tests for strength and elasticity insures a uniformly high grade of cast iron.

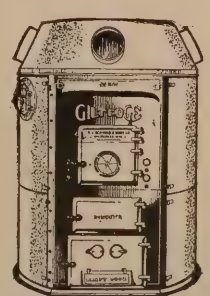
Gilt Edge Specifications:

Heater No.	Grate Diameter	Casing Diameter	Height of Castings	Smoke Pipe Diameter	Leader Pipe Capacity	Shipping Weight
534	17″	42″	51″	8″	500 Sq. In.	1075 Lbs.
537	20″	46″	54½″	9″	650 Sq. In.	1250 Lbs.
540	23″	50″	58″	9″	825 Sq. In.	1600 Lbs.
545	26″	57″	60″	10″	1000 Sq. In.	2000 Lbs.

Note:—The leader pipe capacity in this series is guaranteed on installations conforming to the standard code adopted by the National Warm Air Heating & Ventilating Association.

Unlimited Guarantee

Gilt Edge Furnaces are guaranteed not for five, ten or fifteen years, but for a lifetime of service. An unqualified guarantee from a concern on the threshold of its fiftieth year as manufacturers should impress the prospective installer of its worth based on the past performance of Gilt Edge Furnaces, and the experience gained thru years of fabricating, durable, successful heating equipment.



For further details and literature, write to: **R. J. SCHWAB & SONS COMPANY** 283 Clinton St. MILWAUKEE, WIS.

Thatcher Warm Air Furnaces

Made by

THE THATCHER COMPANY
Formerly THATCHER FURNACE CO.
General Offices: THATCHER BUILDING
39-41 Francis St., Newark, N. J.

EASTERN
DISPLAY ROOMS
21 West 44th St.
New York

WESTERN
DISPLAY ROOMS
341 N. Clark St.
Chicago

Products

The complete list of products of this company is given on page 398. Thatcher Boilers for Steam and Hot Water Heating are described and illustrated on pages 398-99, and Thatcher Ranges and Tank Heaters on page 438.



THATCHER TUBULAR FURNACE

Thatcher Tubular Furnace

This type of furnace has a number of distinctive features which greatly increase its heating capacity, fuel economy and long life. The patented, straight side "Porcupine" Fire-Pot is a notable improvement in furnace design. A multitude of metal pegs, cast integral with the fire-pot, doubles the radiating surface and prolongs the life of the fire-pot. The self cleaning one-piece cast-iron radiator makes escape of gas impossible. The tubular construction results in rapid heating, fuel economy, and pure unscorched, healthful air. While the large feed door and slicer door, high ash pit and anti-clinker, ball-bearing grate make this an exceedingly easy furnace to operate.

Full particulars are given in our booklet "Thatcher Furnaces," a copy of which will be mailed you on request.



THATCHER METEOR FURNACE

THATCHER PIPELESS FURNACE

For consistent Economy, Health, Comfort, Cleanliness, and Convenience the Thatcher Pipeless Furnace (illustrated below) is the LEADER in the heater line. It is economical of space, cost of installation and fuel—saves from 30% to 40% of the average coal bill. The Thatcher Pipeless Furnace is founded on the scientific principle of air circulation. The warm air expands and rises through the center of the register—into the rooms—and, as it cools, is drawn down through the cold air channel, into the furnace, where it is reheated, purified and moistened by the vapor from the water pan and then recirculated through the warm air register. This insures a constant flow of evenly heated "washed" air in every room of the house—upstairs and down and provides ideal ventilation.

Equipment furnished with heater—complete inner and outer galvanized casings. Extension pipes for eight-foot cellar and register with either oxidized copper or black japanned finish. Special THATCHER water pan and two outside casing clean-out doors. Extension pipes for cellars exceeding eight feet furnished when ordered, at a slight additional cost.



THATCHER PIPELESS FURNACE

THATCHER METEOR FURNACE

The "Thatcher Meteor" furnace with hot blast attachment is guaranteed to burn any grade of soft coal, such as slack, screening, or lignite from the fact that the admission of air into and above the fuel at the point of combustion cokes this fuel and in a short time after the fire is replenished, a clean fire like that of hard coal or coke can be had. The construction is such that it is exceedingly economical in the point of fuel consumption as all the particles of coal are thoroughly consumed.

For further details and literature, write to: **THE THATCHER COMPANY, Newark, N. J.**

Utica SUPER-SMOKELESS Furnace

Manufactured by the

UTICA HEATER COMPANY

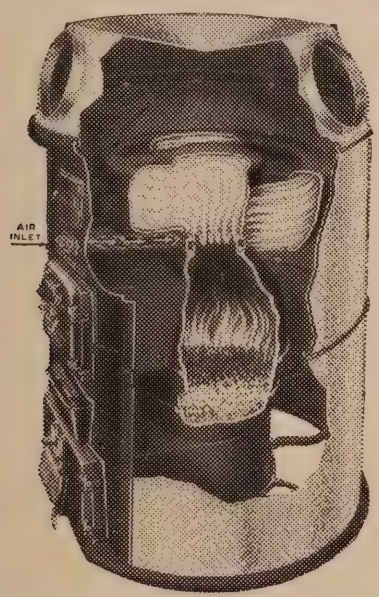
UTICA, N. Y. CHICAGO, ILL.

Burns Smoke as Fuel!

Smokeless even with cheap soft coal! Startling in its complete efficiency! Truly remarkable in its economy of fuel! That is the fact-story of the Utica SUPER-SMOKELESS furnace—the furnace which burns smoke as fuel, and makes smoking chimneys and high coal bills a thing of the past.

The principle of the SUPER-SMOKELESS Furnace is similar to that of the Bunsen Burner and Automobile Carburetor. Both of these devices use a small quantity of fuel and a great quantity of air, mix them together, and produce the most efficient combustion known. The same result is obtained in the SUPER-SMOKELESS Furnace. The SUPER-SMOKELESS Device, illustrated below, injects warm air into the furnace at the point where it strikes the rising smoke and gases. These are ignited and converted into a secondary flame of great intensity. Not only is all smoke consumed within the furnace, but every heat unit in the fuel is utilized. This means a great saving of good coal and the good dollars which pay for it.

Careful experiments and tests show that the Utica SUPER-SMOKELESS Furnace saves about thirty per cent of the fuel, by utilizing as fuel the smoke and soot ordinarily wasted up the chimney in costly clouds. It furnishes an abundance of healthful heat that will make your home warm and comfortable in the coldest mid-winter weather. It entirely eliminates the dirt and grime of black, smoky chimneys and is practically self-cleaning. It burns hard coal, soft coal or coke equally well, having a fine clean ash with no clinkers. It means economy, convenience and complete heating satisfactory to every householder.



Cutaway View of Super-Smokeless Furnace Showing Flame Travel.

The SUPER-SMOKELESS Device that transforms heavy smoke into intensely hot, clean flames.



An exclusive feature of SUPERIOR Pipe and NEW IDEA Pipeless SUPER - SMOKELESS Furnaces.

SUPER-SMOKELESS Furnaces are made in both pipe and pipeless models and combine all the fine features of the regular Type "A" Furnace. Other smokeless furnaces have been devised but only the SUPER-SMOKELESS has proven successful and permanently durable in practical operation.

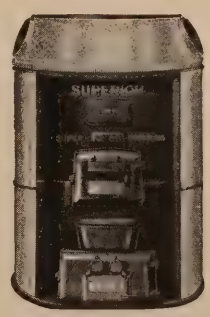
The Utica Heater Company are also makers of SUPERIOR Pipe, NEW IDEA Pipeless, ESSEX Pipe and Pipeless and RECIRCULATOR Furnaces, in addition to Lincoln Radiators and UTICA-IMPERIAL Steam and Hot Water Boilers, suitable for the larger homes.



NEW IDEA SUPER-SMOKELESS PIPELESS FURNACES

Thousands of NEW IDEA Pipeless Furnaces are now giving wonderful satisfaction. Addition of the SUPER-SMOKELESS Device assures smokeless operation as well as unusually economical service.

Number	Firepot	Casing Diam.	Smoke Collar	Feed Door Opening	Capacity Cu. Ft.
SS-180	18″	38″	8″	10″ x12½″	6 to 10000
SS-200	20″	42″	8″	10″ x13″	10 to 14000
SS-220	22″	46″	8″	11″ x13½″	14 to 21000
SS-240	24″	52″	8″	11½″x14½″	21 to 30000
SS-260	26″	56″	9″	12½″x14½″	30 to 40000
SS-280	28″	62″	9″	12½″x14½″	40 to 50000
SS-300	30″	62″	9″	13″ x15½″	50 to 65000



SUPERIOR SUPER-SMOKELESS PIPE FURNACES

SUPERIOR Warm Air Furnaces have been standard heating equipment for more than forty years. The SUPER-SMOKELESS Feature makes them the most desirable pipe furnace made.

Number	Firepot	Casing Diam.	Smoke Collar	Feed Door Opening	Capacity Sq. In.
SS-18	18″	38″	8″	10″ x12½″	300
SS-20	20″	42″	8″	10″ x13″	400
SS-22	22″	46″	8″	11″ x13½″	525
SS-24	24″	52″	8″	11½″x14½″	625
SS-26	26″	56″	9″	12½″x14½″	725
SS-28	28″	62″	9″	12½″x14½″	875
SS-30	30″	62″	9″	13″ x15½″	1025

For further details and literature, write to: **UTICA HEATER COMPANY, Utica, N. Y.**

WROUGHT STEEL WARM AIR REGISTERS

Manufactured By

New York
Philadelphia

The Hart & Cooley Company

INCORPORATED

NEW BRITAIN, CONN.

Chicago
Boston

Products:

Floor, Baseboard and Side Wall Warm Air Registers; Cold Air Faces and Intakes; Ventilators; Gratings and Furnace Regulators.

Advantages of the H & C Line:

The warm air heating system, when properly installed, is superior to any other method of heating—lower in first cost and more efficient in operation.

Proper installation among other things, calls for the free circulation of air both to and from the furnace. H & C Registers are designed to circulate air more freely than any others on the market. The fretwork obstruction has been reduced to a minimum and with no sacrifice of strength.

The free air capacity (meaning the total area of holes in register faces) is printed in the following pages, and the proper size register can be selected for each size of pipe.

Coupled with the marvelous efficiency of H & C Registers, is a construction that will not break during installation or use, finishes that will last, and designs that appeal to the demand for simple harmony.

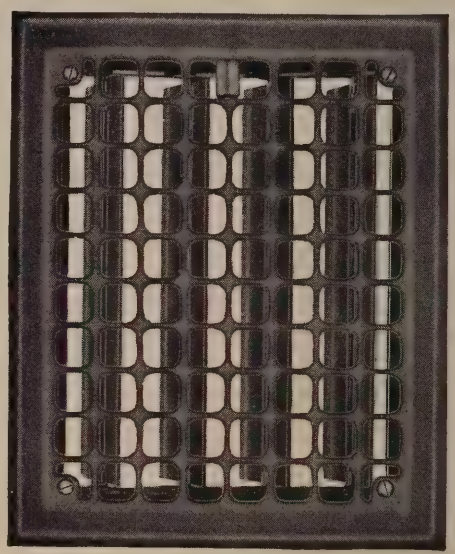
Standard Finishes:

This Company is equipped to furnish any electroplated finish desired to match hardware. The following finishes are standard:

Electroplated light bronze, statuary bronze, polished brass, copper (not shaded), oxidized copper, dull brass (brushed), dead black, nickel.

Black japanned, white japanned, white porcelain enamel, gold bronze paint, silver bronze paint, copper bronze paint.

H & C Wrought Steel Floor Registers Class No. 200



No. 200
Patented

H & C Floor Registers are correctly designed to provide a strong, unbreakable protection for openings through the floor to furnace pipe.

The faces are reinforced by supporting bars of heavy gauge steel.

The steel used in H & C Register bodies is also of heavy gauge to make them rigid and durable. The louvres or valves have solid trunnions securely riveted to each end, insuring free and easy operation.

The square hole design is furnished in all sizes up to and including 14-inch widths. Larger sizes have oblong holes.

Dimensions of Leading Sizes Floor Registers AND LIST PRICES

Sizes 4 x 6 to 14 x 22 inclusive have a uniform depth open of 2 5/16 in., closed 1½ in.

Sizes 16 x 16 to 30 x 42 inclusive have a uniform depth open of 5 in., closed 3 in.

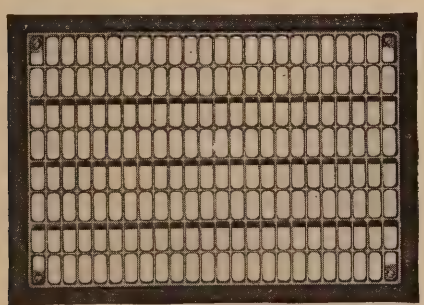
Size of Body	Air Capacity Sq. In.	Black Jap'd	Ox'd Copper	Size of Body	Air Capacity Sq. In.	Black Jap'd	Ox'd Copper
6 x 8	33	$ 1.55	$ 2.80	18 x 20	267	$19.50	$24.75
6 x 10	41	1.60	3.00	18 x 21	279	20.50	26.00
8 x 8	45	1.60	3.00	18 x 24	319	21.50	27.75
8 x 10	56	1.65	3.15	18 x 30	400	31.25	38.00
8 x 12	67	1.90	3.65	20 x 20	296	19.75	24.75
8 x 16	90	4.50	6.75	20 x 24	355	22.00	28.20
9 x 12	75	2.10	4.00	20 x 30	445	33.50	43.00
9 x 14	88	3.10	5.20	22 x 22	358	28.50	36.50
10 x 10	70	2.35	4.35	22 x 24	390	29.50	37.90
10 x 12	84	2.40	4.40	22 x 30	489	36.00	46.50
10 x 14	98	3.15	5.25	24 x 24	426	30.00	40.00
10 x 15	105	4.40	6.50	24 x 26	461	32.00	44.00
10 x 20	140	8.90	12.00	24 x 27	479	33.95	45.00
10 x 24	168	12.15	16.25	24 x 30	532	38.00	50.00
12 x 12	101	4.00	6.35	24 x 36	640	50.00	65.50
12 x 14	118	4.35	6.85	26 x 26	500	37.00	48.00
12 x 15	126	4.50	7.00	26 x 30	578	43.00	56.00
12 x 16	134	5.60	8.25	28 x 28	589	44.00	57.50
12 x 24	202	12.25	16.30	28 x 30	630	48.50	61.50
14 x 14	137	7.90	11.00	28 x 36	756	64.00	86.00
14 x 16	157	8.50	11.50	30 x 30	674	49.00	65.00
14 x 18	176	9.00	12.00	30 x 36	809	67.50	90.00
14 x 20	196	9.50	13.00	30 x 40	898	72.50	100.00
14 x 24	235	14.90	19.50	30 x 48	1080	95.00	124.00
14 x 30	294	27.50	33.00	36 x 36	970	80.00	104.00
16 x 16	190	11.00	15.00	36 x 40	1080	105.00	135.00
16 x 18	213	12.00	16.20	36 x 42	1135	112.00	143.00
16 x 20	237	12.35	16.55	36 x 48	1295	132.00	168.00
16 x 24	284	15.00	20.00	38 x 42	1200	120.00	155.00
18 x 18	240	18.50	23.75				

NOTE—For other sizes, prices and finishes see Hart & Cooley Catalog No. 24.

H & C Wrought Steel Cold Air Faces:

For the removal of cold air from certain rooms, to improve the circulation, H & C Cold Air Faces No. 250 and No. 255 as well as Cold Air Intakes No. 605, No. 607, No. 655 and No. 657, are of largest possible free air capacity and properly designed for this work.

Cold Air Faces Class No. 250



Patented No. 250

This Cold Air Face can be supplied in H & C Oak Finish designed to match all oak floors.

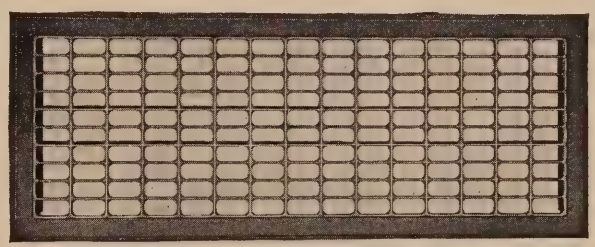
The H & C No. 250 Cold Air Face has the same superior fretwork braced underneath with steel bars which in turn are supported by a heavy angle frame that is removable. The overlap of the face on the floor provides ample support and in this way eliminates the necessity of accurate fitting in the floor. Smaller faces than in the case of wood may be used with equal efficiency.

AIR CAPACITIES AND LIST PRICES CLASS No. 250

PIPE		H. & C. No. 250			
Size	Air Capacity Sq. Ins.	Size	Free Area Sq. Ins.	Black Japan	Ox'd Copper
12	114	12 x 14	118	$ 2.80	$ 5.35
14	154	14 x 16	157	4.30	7.30
16	201	14 x 20	196	4.80	8.50
18	254	18 x 20	267	7.60	12.85
20	314	18 x 24	319	8.35	14.60
22	380	20 x 26	385	9.50	17.50
24	452	20 x 30	445	11.60	23.50
26	530	24 x 30	532	17.25	29.25
28	615	28 x 30	630	21.00	35.50

NOTE—For other sizes, prices and finishes see Hart & Cooley Catalog No. 24.

Cold Air Face Class No. 255



The "H & C" Class 255 face is somewhat lighter than Class 250, yet of ample strength in the sizes made. The braces are riveted to heavy angle plates, which are welded to the face and are not detachable. This face has the same economical features as the Class 250. The "H & C" oak finish is a good match in color to the average oak floor.

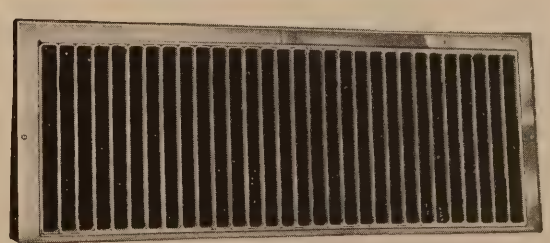
AIR CAPACITIES AND LIST PRICES CLASS No. 255

Size In.	Air Capacity Sq. In.	Oak Finish	Size In.	Air Capacity Sq. In.	Oak Finish
10 x 24	180	$3.75	12 x 30	270	$4.50
10 x 30	225	4.25	14 x 30	313	5.00
12 x 14	126	3.00	18 x 30	405	6.50
12 x 24	216	4.00	20 x 30	450	7.00

NOTE—For other sizes, prices and finishes see Hart & Cooley Catalog No. 24.

H & C Wrought Steel Cold Air Intakes

Classes No. 607 and No. 605



No. 607

Classes No. 607 and 605 (Continued)

The H & C No. 607 is made with projections from wall varying from 5½ to 7½ inches and has the vertical bar face affording greater air capacity.

The H & C No. 605 is identical with No. 607 except that it is made with the oblong hole fretwork.

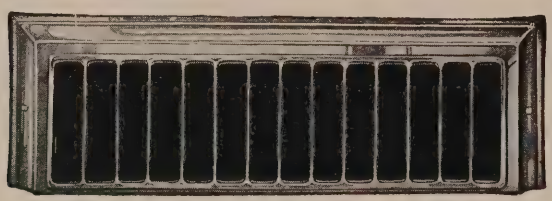
SIZES AND LIST PRICES CLASS No. 607

Sizes		Air Capacity Sq. In.	Proj. from Wall	Black Japan	White Japan	Electro Plated	
Opening	Over All					Ox. Copper	Brass, Nickel, Bronze
10 x 14	11 x 16	115	5½″	$2.50	$3.00	$4.50	$4.80
12 x 14	13⅜ x 16	138	7½″	3.00	3.60	5.00	5.50
10 x 30	11 x 32	245	6″	5.50	6.50	9.50	10.50
12 x 31	13⅜ x 32	305	7½″	7.50	8.50	12.00	13.50

SIZES AND LIST PRICES CLASS No. 605

12 x 14	13½ x 16⅜	110	3″	$3.00	$3.60	$5.00	$5.50
10 x 30	11½ x 32	197	3″	5.00	6.25	9.00	10.00
12 x 30	13⅜ x 31 13/16	236	4½″	5.50	6.50	9.50	10.50
14 x 30	15 11/16 x 31 13/16	274	5½″	7.50	8.50	12.00	13.50
16 x 30	17 5/16 x 31 13/16	314	6½″	8.50	10.00	14.00	15.00

Classes No. 657 and No. 655



No. 657

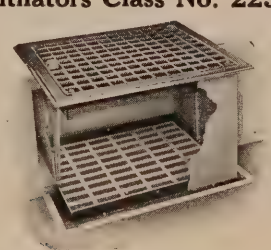
H & C No. 657 Baseboard Ventilating Plate has openings close to the floor, making it very efficient in removing cold air. The edges fit tight to the baseboard.

H & C No. 655 Baseboard Ventilating Plate is identical with No. 657 except that face is of the oblong hole type for use with H & C No. 150 Registers.

LIST PRICES No. 657 and 655

Size	Air Capacity, Sq. In.	Black Japan	White Japan	Electro Plated	
				Ox. Copper	Brass, Bronze, Nickel
5 x 14	657-46 655-35	$1.00	$1.40	$2.00	$2.40
5 x 30	657-98 655-75	2.15	3.00	4 60	5.00

Adjustable Ventilators Class No. 2250



No. 2250

H & C No. 2250 Adjustable Ventilators are made to carry surplus heat from a lower to an upper room.

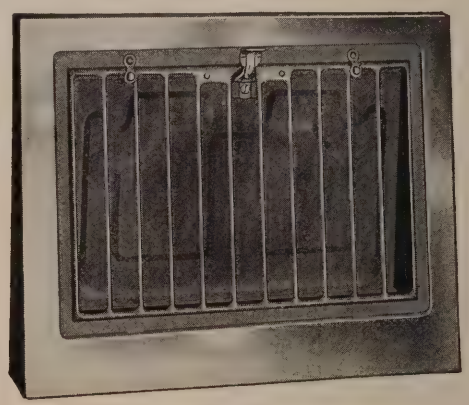
Each consists of one H & C black floor register and one white face, attached to a tin box which is adjustable from five to twelve inches in depth.

SIZES AND LIST PRICES CLASS No. 2250

Size	Price	Size	Price
8 x 10	$4.40	10 x 12	$ 6.40
9 x 12	5.40	12 x 14	10.00

H & C Wrought Steel Base Board Registers

Class No. 170 Series With Quick Detachable Face



(Patent Applied For)
No. 172¼

This register, fitted with quick detachable face of vertical bar design, has extraordinary Free Air Capacity and permits the use of smaller sizes of registers than heretofore, with greater efficiency. The frame is pressed from a single piece of steel. The vertical bars, integral with margin of face, present rounded surfaces and are very strong and rigid.

Construction is sufficiently rigid to withstand very hard use. Any standard finish used in builders' hardware can be furnished.

The valve is held in any desired position by means of a friction hinge and increased friction can be secured by a slight turn of tension screw which secures operating handle. Consult table for Air Capacities.

(The last figure and fraction indicate projection from wall. For instance 172¼ indicates 2¼" projection.)

SIZES AND AIR CAPACITIES CLASS 170

Size, In.	Air Capacity, Sq. In.	Projection from Wall at Base, In.	Size, In.	Air Capacity, Sq. In.	Projection from Wall at Base, In.
8 x 10	66	1¼	10 x 12	102	3¼
8 x 12	81	1¼	10 x 13	110	3¼
9 x 12	92	1¼	11 x 13	127	3¼
8 x 10	66	2¼	10 x 13	110	4¾
8 x 12	81	2¼	11 x 13	127	5⅝
9 x 12	92	2¼	12 x 14	149	5⅝
8 x 12	81	3¼	12 x 14	149	7½

Size	No.	Black Jap'd	Size	No.	Black Jap'd
8 x 10	171¼	$2.00	10 x 12	173¼	$4.00
8 x 12	171¼	2.40	10 x 13	173¼	4.20
9 x 12	171¼	2.50	11 x 13	173¼	4.50
8 x 10	172¼	2.00	10 x 13	174¾	4.85
8 x 12	172¼	2.40	11 x 13	175⅝	5.25
9 x 12	172¼	3.00	12 x 14	175⅝	6.50
8 x 12	173¼	3.00	12 x 14	177½	9.00

Be sure to specify projection from wall desired.

Baseboard Registers (Continued)

Class No. 190 Series

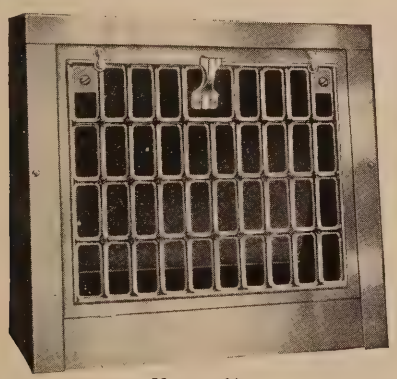


(Patent Applied For)
No. 192¼

This register follows the general detail construction of the 170 except that it is a one-piece register—face is not detachable. The flanges are adapted for use with the same stackheads as used with the No. 170. This class provides an inexpensive register that affords real economy. No. 190 is made in same sizes as class No. 170 and lists at same prices but with a greater discount.

Be sure to specify projection from wall desired.

Class No. 150 Series With Quick Detachable Face



No. 152¼

This is a two-piece register with face that is detachable. The frame is provided with integral flanges having holes for tin loops. The face with valve attached is fastened by means of lugs at bottom and two locking clips at top, a quarter turn of which releases face from frame.

SIZES AND AIR CAPACITIES CLASS 150

Size, In.	Air Capacity, Sq. In.	Projection from Wall at Base, In.	Size, In.	Air Capacity, Sq. In.	Projection from Wall at Base, In.
8 x 10	50	1¼	10 x 12	75	3¼
8 x 12	60	1¼	11 x 13	96	3¼
9 x 12	71	1¼	11 x 13	96	5⅝
8 x 10	50	2¼	12 x 14	106	5⅝
9 x 12	71	2¼			

Size	No.	Black Jap'd	Size	No.	Black Jap'd
8 x 10	151¼	$2.00	10 x 12	153¼	$4.00
8 x 12	151¼	2.40	11 x 13	153¼	4.50
9 x 12	151¼	2.50	11 x 13	155⅝	5.25
8 x 10	152¼	2.00	12 x 14	155⅝	6.50
9 x 12	152¼	3.00			

Be sure to specify projection from wall desired.

H & C Wrought Steel Side Wall Registers

Classes No. 370, No. 340 and No. 350



No. 370

The No. 370, because of its large air capacity, is made for horizontal setting. In design, being of the vertical bar type, it matches the H & C Nos. 170 and 190 Series Baseboard Registers.

The single valve is operated in the same manner as all H & C Baseboard Registers and is positive in action.

No. 340 H & C Side Wall Register is the same as No. 370 except that the face has the square hole with rounded fretwork.

No. 350 is the same as No. 340 except that it is set vertical.

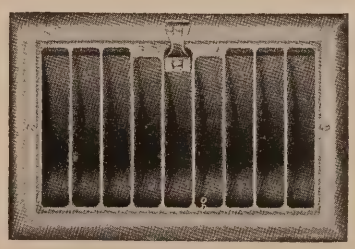
SIZES AND LIST PRICES CLASS No. 370

Size	Air Capacity, Sq. In.	Black Japan	White Japan	Electro Plated	
				Ox. Copper	Brass, Nickel, Bronze
8 x 10	64	$1.65	$2.00	$3.15	$3.85
8 x 12	79	1.90	2.30	3.65	4.40

SIZES and LIST PRICES CLASS No. 340 and CLASS No. 350

8 x 10	44	$1.65	$2.00	$3.15	$3.85
8 x 12	53	1.90	2.30	3.65	4.40
9 x 12	60	2.10	2.55	4.00	5.10

Class No. 377



No. 377

No. 377 Side Wall Register of vertical bar type and with convexed face and curved back plate, matches in design our No. 170 and 190 Baseboard Registers.

Because of large free air capacity these smaller and less costly sizes are ample for second floor registers. They will admit into the room all the warm air that can be delivered through 10 inch or 12 inch wall stacks.

SIZES, AIR CAPACITIES AND LIST PRICES CLASS No. 377

Size	Air Capacity, Sq. In.	Black Japanned
6 x 10	50	$1.50
6 x 12	58	1.70

"No-Streak," "Out-O-Wall" and "Vol-Yum" Registers, R. I. Cold Air Faces

Made by

ROCK ISLAND REGISTER COMPANY

Rock Island, Illinois

Products:

This company makes Wall Registers for Hot Air Furnaces, with patented construction features. One of the types—"No-Streak" prevents streaking of the wall. Also makes Cold Air Faces for installation in baseboards.

"No-Streak" Register:

This is the only warm air register guaranteed to prevent streaking of the walls—a feature especially valuable because it saves the house owner from $20 to $27 annually on decorating expense.

Construction:

The register boxes are made of double galvanized iron with tin linings, making a dead air space for insulation, which adds to the durability of the register as well as increasing fire protection.

Finishes:

Rock Island registers are finished in the most modern and durable manner known to the electro-platers' art to match all prevailing hardware finishes.

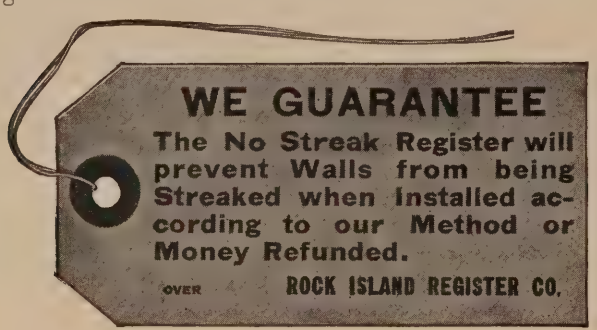
Standard finishes are electro-plated Oxidized Copper, Brush Brass and Nickle. All special sanded finishes will be made to match hardware upon request.

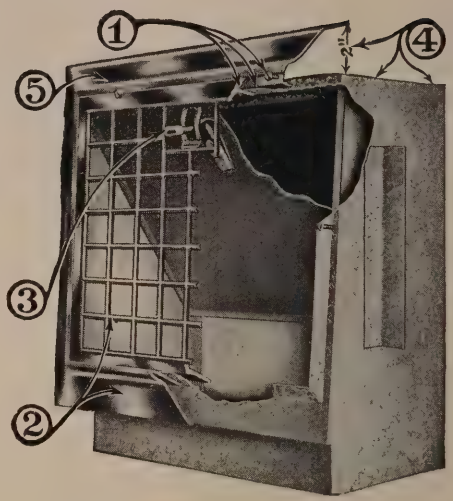
The enamel finishes are high-gloss, baked-in Black, and a durable, non-changing White.

A very attractive and moderate priced finish is available in our Lacquered Bronze paint finish to correspond in color to the standard electro-plated finishes.

This Guarantee Tag is Attached to Every "NO-STREAK" Register:

The "No-Streak" Guarantee is based on the patented interlapping joint of the register to the double metal register box which is an integral part of the complete register.





Sectional View Showing Individual Features of No-Streak Registers.

Individual Features:

1—Expanding interlapping slip-joint connection which prevents the air from streaking the walls.

2—Steel Frame and Removable Grille, having over-capacity Free Air opening.

3—Malleable Lever easily operated by Hand or Foot. Absolutely trouble-proof.

4—Galvanized, tin lined box having Floor line, Wall line and Recessed top collar. Note 2-inch trimming space around box.

5—Easy fastening by two large oval head bolts.

Efficiency:

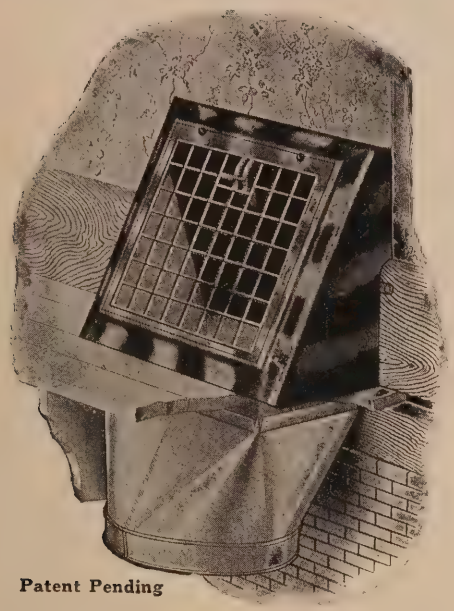
"No-Streak" registers are the most efficient register on the market because register grilles and register boxes have equal free area through the grille and through the boot opening in bottom of register box to equal area of round warm air pipe specified. (See list of pipe sizes and measurements at bottom of page).

Pipe Sizes and Boot Measurements:

No. of Reg.	Free Area in Grille Inches	Square and Round Pipe Size In.	Regiser Boot Size Inches	Extension Pipe Collar Size
8½	55 in.	3⅝x10⅝	3⅝x10⅝	None
9½	70 in.	3⅝x12⅝	3⅝x12⅝	None
16½	110 in.	3⅝x10⅝	3⅝x10⅝	None
18½	140 in.	3⅝x12⅝	3⅝x12⅝	None
8	55 in.	8 in.	5½x10⅝	None
9	63 in.	9 in.	5½x12⅝	None
10	85 in.	10 in.	6¾x12⅝	3⅝x12⅝
12	115 in.	12 in.	8¼x13⅝	3⅝x12⅝
14	154 in.	14 in.	9 x16⅝	3⅝x13⅝
16	110 in.	9 in.	7¼x10⅝	None
18	140 in.	10 in.	7¼x12⅝	None
20	170 in.	12 in.	9⅞x12⅝	3⅝x12⅝
24	230 in.	14 or 16 in.	12⅞x13⅝	3⅝x12⅝
28	310 in.	16 or 18 in.	14⅜x16⅝	3⅝x13⅝

For further details and literature, write to: **ROCK ISLAND REGISTER COMPANY, Rock Island, Ill.**

"No-Streak," "Out-O-Wall" and "Vol-Yum" Registers, R.I. Cold Air Faces (continued)



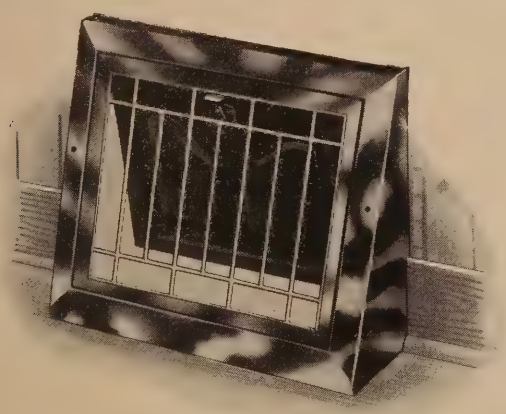
Patent Pending

"Out-O-Wall" Register:

The most satisfactory and efficient wall register for installation in houses already built or those where the construction will not permit of the usual type of wall register.

The register and double wall box are a unit that is installed by simply cutting the baseboard and a hole in the floor against the wall. This installation saves approximately 90% of the usual labor necessary to cut and install ordinary wall registers, and makes an attractive and efficient job.

The measurements and openings for "Out-O-Wall" registers correspond with those of "No-Streak" registers (see opposite page) making pipe fittings interchangeable.



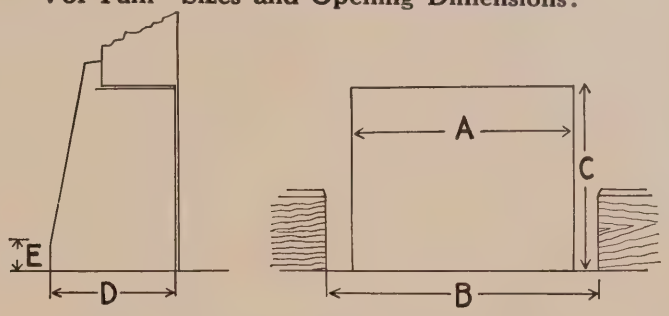
"Vol-Yum" Register:

This is the last word in warm air register design for a moderate priced and attractive register for group construction of bungalows and one or two story cottages. It has beauty of design and a pleasing appearance that is charming and artistic in its decorative effect.

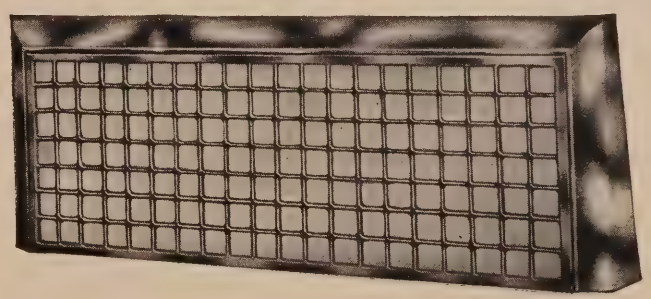
The grille is particularly novel in the new treatment of the perpendicular bar by combining a margin in the lattice effect that is both practical and beautiful. One hundred percent capacity of free area is secured, insuring a more efficient heating plant.

A comparison between "Vol-Yum" and other registers is invited because "Vol-Yum" registers are of such merit and value that they will save many dollars when specified in construction work.

"Vol-Yum" Sizes and Opening Dimensions:



No.	Free Air	Boot Opening	Rnd. Pipe Size	A Wall Width	B Base Board	C Wall Height	D Floor	E Base
50	52"	6⅛x10⅝	8"	10¾	13⅛"	10¼"	6¼"	2⅛"
63	65"	6⅛x12⅝	9"	12¾	15¼"	11¼"	6¼"	2⅛"
78	80"	7⅛x12⅝	10"	12¾	15¼"	11¼"	7¼"	2⅛"
113	115"	9⅛x13⅝	12"	13¾	16"	12¾"	9¼"	2⅛"



Rock Island Cold Air Faces:

These baseboard Cold Air Faces are designed to match "NO-STREAK" and "OUT-O-WALL" registers. They are pleasing and attractive when installed, furnishing that finishing touch that makes the ideal job.

Rock Island Faces installed in the baseboard of rooms are more sanitary and satisfactory than the old style faces.

No. or Size	Round Pipe Size	Net Wall Opening Height-Width	Net Area Sq. Inches
11 x 16	12"	10"x16"	112"
11 x 32	16"	10"x31"	224"
16 x 16	14"	13"x15½"	162"
16 x 32	18" or 20"	13"x31"	324"

Convex Cold Air Ventilating Plates:



No. or Size	Round Pipe Size	Net Wall Opening Height-Width	Net Area Sq. Inches
6 x 16	9"	4¾"x15"	60"
6 x 32	12"	4¾"x30"	120"

For further details and literature, write to: **ROCK ISLAND REGISTER COMPANY, Rock Island, Ill.**

Mueller Registers, Grilles and Ventilators

L. J. MUELLER FURNACE CO.

GENERAL OFFICES
297 Reed Street,
MILWAUKEE, WIS.

For Branch Offices See Page 364

Products

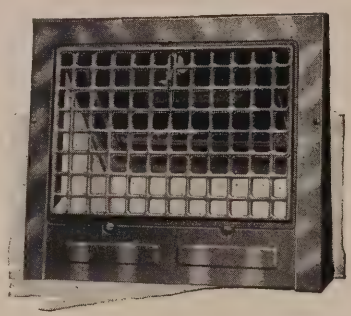
REGISTERS; GRILLES; MUSHROOM VENTILATORS. For Cabinet Heaters (The FURNACETTE) see page 386.

For Warm Air Furnaces, Pipe and Pipeless, and Garbage Burning Tank Heaters, see page 364.

Wrought Steel Base-Board Registers

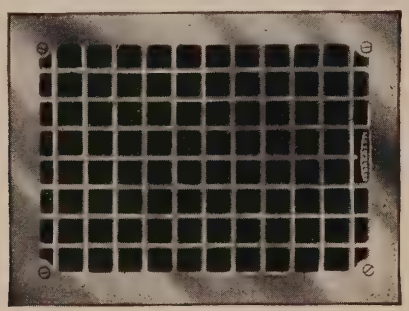
The distinctive features of Mueller Baseboard Registers are: neat appearance, durable construction, maximum free air area, simple and positive operation.

Both the square and round corner registers are made with a solid one-piece frame, with a removable grille.



Baseboard Register with Square Corners

These are carried in stock in 6 standard sizes and in a large variety of finishes. Descriptive folder on request, showing the popular new "Colonial" finish.



Floor Register

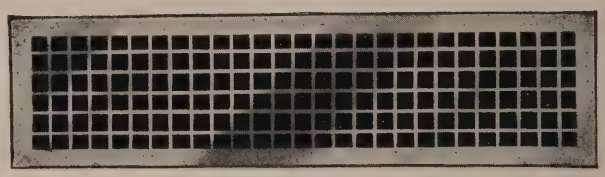
Floor Registers

Plain lattice design—semi-steel construction—boxes and valves of sheet steel, faces cast of semi-steel. These registers have great strength and are unusually neat in appearance.

Carried in stock in all standard sizes and finishes. Can be made to special order in any size. Prices will be quoted on application.

Cast Iron and Steel Grilles

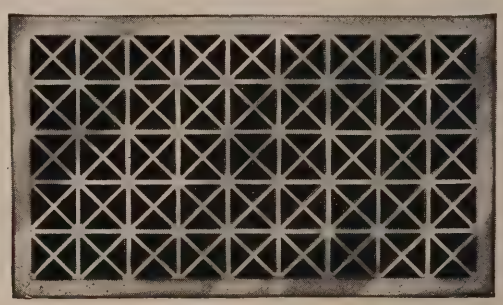
Can be made in any size and finish. Some sizes carried in stock. Any size can be made to order. When ordering, specify whether dimensions are size of opening or extreme size of grille. Can be furnished curved if desired.



Cast Iron or Steel Grille

Special Design Grilles

Below is shown one of the many special design grilles that we manufacture, in cast iron, brass or bronze. Send specifications for prices.



Special Grille

Mushroom Ventilators

For use in schools, theaters, churches, and public buildings. Easily adjusted to distribute an equal volume of air.



Perspective of Mushroom Ventilator

ADVANTAGES—The Mueller Mushroom Ventilator has the following advantages: positive locking feature, no depression in cap to collect dirt, no setscrew projecting; easy, quick and permanent adjustment.

Carried in five sizes: 4, 5, 6, 8 and 10 inch diameter.

Catalog and Prices

Upon request we will furnish illustrated catalog of our complete line of registers, ventilators and grilles. Prices on odd sizes of registers and grilles, also special design grilles, will be submitted on application.

Registers, Grilles and Radiator Enclosures

Made by

TUTTLE & BAILEY MFG. CO.

441 Lexington Avenue, New York

CHICAGO
1123-29 W. 37th St.

BOSTON
36 Portland St.

KANSAS CITY
704 E. 18th St.

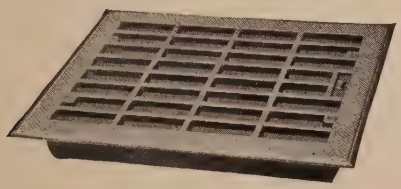
Products

Registers and Grilles in both Cast and Stamped Metals for heating and ventilating ducts.

Radiator Enclosures, both all steel and those with wood frames and metal grilles.

Floor Registers

Cobble Face Registers—Style No. 80.



Cobble Face Register

Cobble Face Registers are a new and exclusive product of our factory.

The miniature cobbles prevent the foot from slipping and give an extra radiating surface which keeps the register from becoming overheated.

As the wear comes only on the "tips" of the cobbles, any finish applied is untouched in the "valleys" so that a cobble face finish lasts indefinitely.

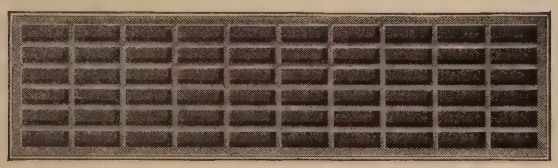
The rolled edge makes a snug and even fit with the floor, without recessing.

The design furnishes the largest free air openings, consistent with strength, safety and appearance.

The finish, Tanbo Antique only, is distinctive and pleasing and matches the prevailing mode in Builders Hardware. Tanbo Antique harmonizes well with all color schemes, therefore the one finish is suitable for every room.

The bottom is made of heavy gauge steel, with beveled sides to insure easy fitting, and the Patent Roller Movement opens and closes the valves positively but smoothly, and locks them automatically when closed. Made in all the used sizes.

Cobble Cold Air Face Style C



Matches cobble register in design and Tanbo finish.

A Face which provides ample Air-Flow, Strength and Durability with low cost.

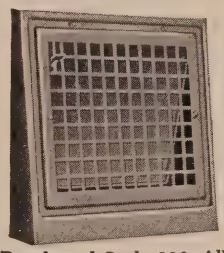
Style C Cobble is Cast Iron and its oblong mesh means *No Obstruction to circulation.*

The finish will suit *any* surroundings.

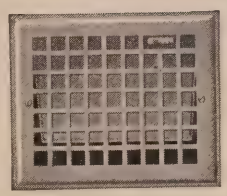
The Rolled Edge and Narrow Rim insure close fit with easy setting—the minimum of labor charge; and the Face can come close to the partition.

No staining, varnishing or painting is necessary as Cobble Cold Air Faces are finished in Tanbo Antique to match the Cobble Registers.

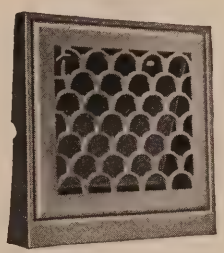
Wall and Baseboard Registers



Baseboard Style 900. All steel. Made with all steel frame stamped from one piece of steel, with no joints or rivets. Face has 7/8" square mesh. All standard finishes.



Wall Register Style 40. All steel. Thin as a wafer—beveled edge makes perfect fit against plaster. Reversible face can set either vertically or horizontally.

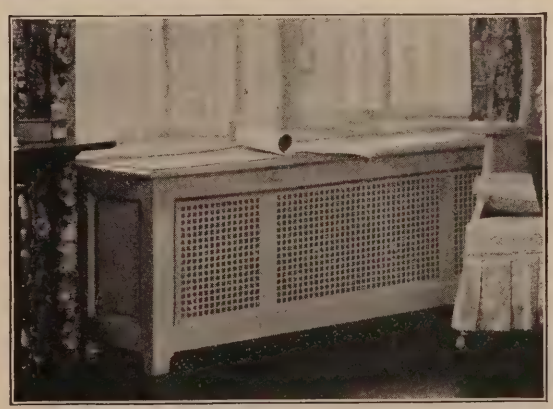


Baseboard register in popular fish scale design. Style 100. Cast face; steel body.



Baseboard register of Colonial design. Style 44. Cast face; steel body.

Radiator Enclosures



Radiator Enclosure with wood frame and square mesh steel grilles. The best design for all around uses. Made also with woven steel grilles, cane design.

Made in two forms; the all steel and combination of steel and wood.

Made to set over radiators, converting objectionable rows of iron into attractive piece of furniture.

Standard finishes—White, Cream, Mahogany and Walnut.

Grilles sold separately, for those who want to build and finish their own frames.

Sold also in unfinished wood and grilles, to finish to suit.

Equipped, if desired, with humidifier and patented Summer and Winter top.

Send for circular for full particulars and prices.

Prices and Particulars

Send for circulars and printed matter giving full information and prices on registers, cold air faces and enclosures. Advise us in your letter as near as possible what your needs are, so our reply will surely cover the information you want.

DOYLE'S MINERAL WOOL

Made by

J. W. DOYLE COMPANY (Engineers, Contractors, Chemists)

General Motors Building, Detroit, Mich.



J. W. Doyle Company

This company specializes in heat insulation. Through their authorized representatives in all parts of the country they contract to thoroughly insulate the heating plant (boiler or furnace) and the water heating and hot water storage system, so that the heat losses will be reduced to a minimum, resulting in a great saving in fuel.

Agents Wanted

Doyle's Mineral Wool, the material used for insulating boilers, furnaces, water heaters, hot water tanks, etc., is not sold in bulk, but is furnished only through authorized representatives who apply it themselves, thus insuring a perfect job. Building contractors are invited to write to J. W. Doyle Company, General Motors Building, Detroit, Michigan, regarding terms to agents. This is a profitable side line and some desirable territory is still open.

Heat Losses in Homes

The amount of money wasted by the people of this country in fuel burned to no purpose is appalling. Twenty-five to fifty percent of the heat from the coal, gas, or oil consumed in uninsulated heating equipment is a dead loss, due to the fact that much of the heat generated is radiated from the surface of the boiler, furnace, or pipes, and never reaches the rooms it is desired to heat.

Converted into terms of coal this means that from 500 to 1000 pounds of each ton of coal purchased is a dead loss. Yet this tremendous waste can be prevented at comparatively small expense by the Doyle method of insulation.

Pays for Itself

The saving of fuel is so great in homes in which the heating equipment is insulated with Doyle's Mineral Wool that the cost of insulation is quickly paid for by the saving effected in the amount of fuel used. So generally satisfactory has the Doyle method of insulation proven to be that no one has ever called on us to refund their money although every job is covered by our guarantee, one clause of which states that money will be refunded to any customer who is dissatisfied after one year's experience with the Doyle Method of insulation.



For further details and literature, write to: **J. W. DOYLE COMPANY, Detroit, Mich.**

IDEAL BOILERS and AMERICAN RADIATORS

Manufactured by

AMERICAN RADIATOR COMPANY

General Sales Office, 1807 Elmwood Ave., Buffalo, N. Y.

For "Arcola" Hot Water Radiator Heating, see page 388.

IDEAL VECTO HEATER

For Smaller Homes, Stores, Offices, Garages and Other Buildings Us to 8,000 Cubic Feet Capacity

For Ideal "Arco" Round Boiler, see page 389.

TO THE SMALL HOME and other buildings that have had to depend, in the past, upon old-fashioned heating methods, the Ideal Vecto Heater brings solid comfort, warmth and coziness without any expensive installation.

It is a compact, self-contained, beautiful heating unit which warms, not one room, but a whole home, and yet consumes only as much coal, or less, than is now used by old-fashioned methods to heat one room.

Its warmth is clean and healthful. It requires no basement for installation; it is an ornament in any room. For more or less heat, you need but turn a handle. Compact and self-contained, it maybe moved like furniture. It burns either coal or wood, and will serve you faithfully and efficiently during your lifetime.

Scientifically Designed

In principle and in construction, the Ideal Vecto Heater is altogether different from old-fashioned heating devices. It is a scientific application of nature's way of spreading warmth. That is why it is so almost unbelievably efficient as to warm an entire small home while consuming only the same amount of fuel, or less, than is ordinarily used to heat one room.



In old-fashioned heaters the fire sends out its heat by radiation. Around the fire it is intensely hot; but near the walls and in the other rooms it may be cold and draughty. The heat is uncontrolled. Coal is wasted, comfort sacrificed and health endangered.

The operation of the Ideal Vecto Heater is based on the natural law of gravitation. Air is drawn in at the base, and brought into contact with a very extensive, scientifically designed heating surface; being warmed, it flows upward and outward, carrying its warmth to every corner of the home. The process is continuous. A gentle suffusion of even, comfortable warmth fills every room.



Warms the Whole House

The Ideal Vecto Heater warms large volumes of air at moderate, controlled temperatures, preserving its healthful qualities. It circulates the warmed air through the home six to ten times an hour, thus ventilating as it warms.

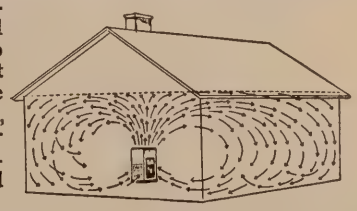
Easily and Quickly Installed

To install the Vecto Heater requires no ripping up of flooring, no special piping whatever. It is a self-contained unit. The rear smokehood with damper control is provided as a regular part of the equipment, and needs only to be connected to a chimney. This is accomplished in a few minutes. The fire may then be lighted. It can be moved like furniture. No matter where you go, you can always be sure of having warmth and comfort in your home.

How It Works

The great secret of the Ideal Vecto Heater lies in its extraordinarily large and scientifically designed heating surface, the temperature of which is controlled by the simple turning of a handle conveniently placed in the front of the Heater.

The diagram shows how *large volumes of air are continuously warmed and circulated at moderate temperatures*. The vital qualities of the air in the home are not burned out, but are preserved. Ideal Vecto warmth is not only more economical, but is far more comfortable and healthful.



A Handsome Piece of Furniture

The Ideal Vecto Heater is as beautiful to look upon as it is efficient in operation. It brings the cheer of an open fire, for its fire-lights shine clearly through the window glow-panels in front. These glow-panels are made of a chemically prepared glass mixture that resists high fire temperatures.

The cover of the Vecto Heater is sheet steel, finished with a highly lustrous gray enamel—as bright as the glow of china. This finish is vitreous enamel, baked on at a very high temperature, so that it will not be affected by heat. The beauty of the Ideal Vecto Heater is practically everlasting; and it harmonizes perfectly with any interior.

This Ideal Vecto Heater does not take up much space. It is 22 inches wide, 21 inches deep and 48 inches high.

Low in Price

The Ideal Vecto Heater is not expensive. Its price is $99 f. o. b. Buffalo.

This makes it an ideal heater for the inexpensive small home from three to five rooms, the small shop, office, private garage, oil filling station or other small building up to 8,000 cubic feet of space.

It comes all ready to be put into use for there is no installation required except connection of the smokehood.

THE RED CROSS FURNOLA

Manufactured By

CO-OPERATIVE FOUNDRY COMPANY

ROCHESTER, NEW YORK

RED CROSS

RANGES FURNACES

Trade Mark Reg. U. S. Pat. Off.

Red Cross Products

Red Cross Furnola Heating Unit; Red Cross Empire Furnaces; Red Cross Ajax Furnaces.

Red Cross Gas Ranges; Red Cross Combination Ranges; Red Cross Coal Ranges and Oil Stoves.

See Pages 359 and 428.

A complete line of high grade cooking and heating equipment.

The Red Cross Furnola



Drawing cold air from the floor level, warming it to a comfortable temperature, then circulating it to every nook and corner of the house—the Red Cross Furnola circulates heat like a warm air furnace!

In construction, this type of heating unit is similar to a pipeless furnace—it has a double casing; depends on circulation for its great heating power and is adaptable to practically the same types of buildings.

Located on the ground floor it eliminates the necessity of a cellar or basement.

When to Install It

The improved principles of construction; the method of circulating the heat instead of radiating and its low cost make the Red Cross Furnola an ideal heating system for old homes without a furnace, new homes without a basement, for offices, shops, stores, public buildings, rural schools, etc.

Specifications

SPECIFICATIONS—RED CROSS FURNOLA

No. 16-W Grained Walnut Finish, porcelain enameled.
No. 16-B Blue Steel Finish with nickel trim.

Height .....52"	Size Ash Pit Door Opening .....5½x13¼"
Width (square).....24"	Diameter Smoke Pipe .....7"
Diameter Fire Pot (top) 16"	Weight Crated (shipping) 500 lbs.
Depth Fire Pot.....12"	Capacity 5 to 7 rooms.
Diameter Eclipse Grate..12"	
Size Feed Door Opening .....8½x11½"	

Design and Construction

In appearance the Red Cross Furnola is at once strikingly attractive. Toned in a lasting finish of grained walnut in porcelain enamel, it looks like a piece of fine furniture, or finished in blue steel with sparkling nickel trim and black porcelain enameled top and doors it is a handsome heating unit. The cast iron construction of the Furnola is heavy and durable. All joints are deep cup, thoroughly cemented and bolted—it is dust-proof and gas-tight! See chart below for full specifications and weight.

Heating Capacity—Fuel Economy

The Red Cross Furnola will comfortably heat from five to seven rooms of a cottage type home or one allowing for free circulation of air. It will do the work of approximately three of the ordinary type of parlor stoves with the fuel of one. This fuel economy and unusual heating capacity is due to the method of circulation and the large radiating surface.

Shipped Complete

The Red Cross Furnola is shipped complete ready to install the minute it is received. It is mounted and assembled right in the crate and due to the extreme care used in packing and crating it seldom, if ever, arrives in a damaged condition.

How It Circulates Heat

The picture to the left shows the interior construction of the Furnola with its cast iron ash pit, fire pot and dome.

White arrows indicate the passage of air circulating through the Furnola. When entering at bottom it is cold, then gradually becoming warmed, it ascends and finally passes out through the top grating to circulate itself to every nook and corner of the home.



Catalogs and Prices

Complete details and catalogs on the Red Cross Furnola will be furnished upon request. To builders of cellarless houses we will quote attractive prices and ship direct on big operations.

For further details and literature, write to: **CO-OPERATIVE FOUNDRY COMPANY, Rochester, N. Y.**

ESTATE HEATROLA

Made By

THE ESTATE STOVE COMPANY

Hamilton, Ohio

Heatrola Makes the Cellarless House Practical

After all is said and done, the only real excuse for the basement of a small house is to provide a place for the heating plant. But a basement costs money—at least 15% of the total cost of the house. That means $700 on a $4500 house.

Now, with the Estate Heatrola,

"THE HEATING PLANT THAT SAVES 15 PER CENT OR MORE ON SMALL HOME CONSTRUCTION."

Heatrola Circulates Heat

Heatrola's ability to provide furnace comfort, even in the coldest weather, is due to the fact that it circulates heat, instead of radiating it as a stove does. Great volumes of warm, moist air keep circulating through the house, heating distant corners to the same comfortable temperature as that of the downstairs room in which the Heatrola stands.

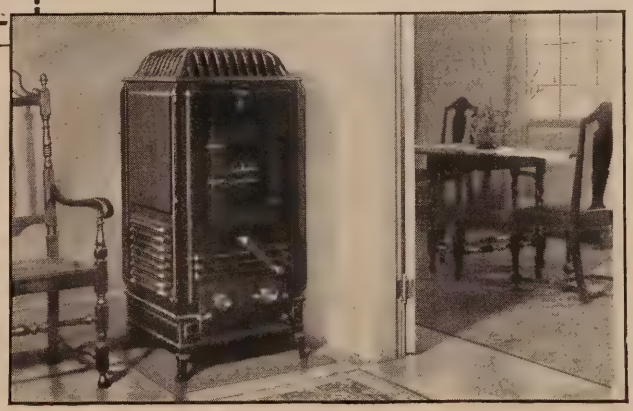


Heatrola Is Handsome

Heatrola, finished in vitreous enamel, looks like a fine mahogany cabinet. It harmonizes with modern living room furniture.

Heatrola can be installed in less than an hour, and be ready for firing. All that is needed is a flue connection. No pipes—no registers. And it is so easy to control that a child can set its simple drafts, or shake down the ashes.

the cost of the basement can be saved. For Heatrola requires no basement, yet it provides furnace comfort for every room in the house—upstairs and down. It has frequently happened that by saving the cost of the basement, the home builder was relieved of the burden of a second mortgage—or was able to select a better building lot—or could build a better house than was planned originally.



Cellarless House Plans for Building Contractors

The Estate Stove Company, manufacturers of Heatrola, will gladly send you a free copy of "Eighteen prize-Winning Cellarless House Plans"—a booklet containing plans submitted by architects and building contractors in a recent cellarless house contest. We will also send you our booklet of cellarless house plans prepared by The Architects' Small House Service Bureau—together with complete details about the Heatrola.

Cellarless House Approved By Leading Architects

The cellarless house idea has the approval of leading architects everywhere. The plan has been followed extensively by Ernest Flagg—famous designer of the Singer Building, the United States Naval Academy and the Corcoran Art Gallery—always at a saving of 15% or more. The Architects' Small House Service Bureau not only approves the cellarless house, but has prepared a number of plans that are at the disposal of any builders. During the last few years thousands of cellarless houses have been built in all parts of the country.

Heatrola Is Economical

Heatrola burns any kind of coal, also wood—and uses no more fuel than a stove. It is cleanly, too, for its patented construction prevents the escape of dust or smoke into the house. It can be wiped clean with a cloth—no polishing is necessary.



"There is only one Heatrola—Estate builds it!"

For further details and literature, write to: **THE ESTATE STOVE CO., Hamilton, Ohio**

MUELLER FURNACETTE

"HEATS THE WHOLE HOUSE"

Manufactured By

L. J. MUELLER FURNACE CO.

GENERAL OFFICES

MILWAUKEE, WIS.

297 Reed Street,

For Branch Offices See Page 364

Products

THE MUELLER FURNACETTE, (CABINET HEATER);

For Warm Air Furnaces and Tank Heaters see Page 364.

For Registers, Grilles and Mushroom Ventilators, see Page 380.

Its Place in the Home

The Furnacette is placed centrally wherever there is a flue connection, in one of the living rooms of the home. It *heats the whole house* by constantly circulating warm, moist air as does a high grade furnace. It does the work of 2 and 3 good stoves requiring the floor space, (26″x26″) fuel and attention of only one. No nickel to polish, no blacking. Harmonizes with the most attractive interior schemes. *In no sense a stove!*



Louis XVI Cabinet, Natural Walnut Grain in Vitreous Enamel

Embodies construction principles of Mueller furnaces and boilers developed through 69 years. Ventilates as it circulates warmth to every corner of every room.

The beauty of the Furnacette is unsurpassed. It is easily kept clean with warm soap suds and a soft cloth.

CAPACITY: Will heat average 5 to 7 room house. Ideal for cellarless homes or those formerly stove heated.

FUEL: Burns any kind of fuel. Made in 3 types; for hard or soft coal, wood, coke or lignite; for natural or artificial gas; and combination coal or gas burning type.

ADDITIONAL USES: Besides uses listed, the Furnacette is ideal for stores, schools, churches, offices, lodge halls, garages, summer cottages, etc.

Construction

All-Cast iron *one-piece heating unit* proof against gas or smoke leakage. *Inner Casing* intercepts direct radiation from heater and gives it off to air passing over it. Protects outer cabinet from overheating. No radiated heat from cabinet to endanger nearby furniture. *Automatic Regulator*, controlled by temperature of heater, opens and closes draft damper, maintaining an even temperature throughout your home. Controls the fire without attention. *Firepot Liners* act as hot blast, injecting air over fire bed to increase combustion. Additional protection to sides of heater body. Assures full heat value from fuel burned.

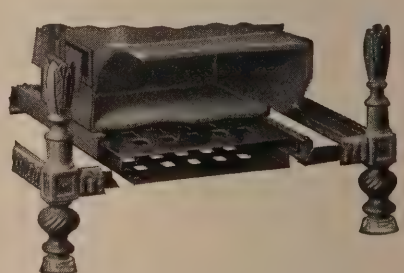


View of Double Casing, Thermostatic Regulator, Leak-Proof Casting, Hot Blast Fire-Pot Liners.

Air-Cooled Rug and Floor Protector

No unsightly zinc floor board required with the Furnancette because of the air-cooled rug and floor protector. It is located immediately beneath the ash pit; it intercepts downward radiation and gives off this heat to the air circulating through it. The finest floor or rug is thoroughly protected and in no danger from reflected heat.

GLASS CASTER CUPS set off the period design furniture legs of the Furnacette, and protect rugs against indentation. CATALOG ON REQUEST.



Patented Air-Cooled Rug-Protector. No Unsightly Zinc Floor Board Needed.

MUELLER *Furnacette*

For further details and literature, write to: **L. J. MUELLER FURNACE CO.** 297 Reed Street MILWAUKEE, WIS.

Burnham Boilers for General Heating

BURNHAM BOILER CORPORATION

IRVINGTON, NEW YORK

Boston
80 Boylston St.

OFFICES IN ALL PRINCIPAL CITIES

Chicago
220 South State St.

Products

Round and square sectional cast iron boilers for all kinds of low pressure heating for water, steam, vapor and vacuum systems. Tank heaters for both low and high pressure.

Laundry Stove and Water Heater

A combination Laundry Stove and hot water supply heater of exceptional efficiency.

Has goodly sized fire pot.

Very economical.

Made to heat up to 80 gallons.



Laundry Stove

Tank Heaters

For hot water supplies.

Being a boiler designed distinctly for its single purpose. Its ease of running, quick heating and economy in fuel are its outstanding features.

Made in sizes, to supply from 175 to 700 gallons.



Jr. Tank Heater.

High Pressure Water Supply Boiler

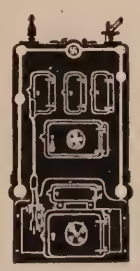
Made strictly for high pressure work in apartment houses, public buildings, etc.

Tested at 2½ times its ratio working pressure.

Guaranteed for 80 pounds.

Made in 7 sizes, to heat from 865 to 1757 gallons.

Has won a reputation for easy firing and uniformly dependable heating.



High Pressure Water Supply Heater

Round Steam or Water Boilers

For homes and other buildings where the radiation needed does not exceed 2,560 feet for water and 1,550 feet for steam, this boiler has many outstanding features.

Being made in sections it's easy to install or repair.

The castings are heavy—but not so heavy as to impede economical heating.

Grates are revolving, operating in pairs.

Fire pot is deep, and combustion chamber ample size.

Crown sheet corrugated, a distinct economy advantage.

Made for either steam or hot water in 18 sizes, to heat from 550 to 2,560 feet for water, and 330 to 1,550 feet for steam.



Round Sectional Water Boiler made also for steam.



Square Sectional Water Boiler made also for steam.

Square Sectional Water or Steam

This is the Burnham Boiler you have heard the most about, because it was the first of the family that Mr. Burnham designed. He had an almost uncanny sense that told him exactly how to proportion heat absorbing surface, to the size and number of flues. That, and how long to make the fire travel.

There are other boilers that seemingly are quite the same as a Burnham.

But when it comes to cost of installing and cost of coal used, the Burnham has a way of opening your eyes.

It's designed right, and made right, that's *why* it works right.

Made for either water or steam in 19 sizes.

Will heat from 750 to 6,000 feet for steam and 1,250 to 10,075 feet for water.

Burn All Fuels

Right next door from each other, Burnhams are economically burning soft coal, hard coal, coke and oil.

Burning all sizes from egg down to pea.

It's another thing in which Mr. Burnham's uncanny sense sensed so well.

For Oil Burning

The fact that so many of the oil burner concerns are urging the use of Burnhams, shows how closely linked with the right boiler, they feel the success of their burner is.

General Economy Points

Everybody claims their boiler has all the rest backed off the boards.

All of them can't be "the best made."

But none of them have actually met and won in the seven tests given the Burnhams.

Burnhams won their first spurs heating greenhouses.

Next to heating all outdoors, a greenhouse is the most difficult.

If they can economically heat houses having only ⅛ of an inch of glass between frost and flowers, it is self-evident what they will do under less exacting conditions.

Send for Printed Matter

Exact information for yourself is in our Hand Book.

Just the untechnical, easy to understand kind home owners want is in "Letters To and Fro."

Send for both.

For further details and literature, write to: **Burnham Boiler Corporation, Irvington, N. Y.**

IDEAL BOILERS and AMERICAN RADIATORS

Manufactured by

AMERICAN RADIATOR COMPANY

General Sales Office; 1807 Elmwood Ave., Buffalo, N. Y.

BRANCH SALES OFFICES

Atlanta, Ga.—232 Peachtree St.
Baltimore, Md.—1308 Lexington Bldg.
Boston, Mass.—129-131 Federal St.
Buffalo, N. Y.—220 Delaware Ave.
Chicago, Ill.—816 S. Michigan Ave.
Cincinnati, O.—710 Gwynne Bldg.
Cleveland, O.—509 Hanna Bldg.
Denver, Colo.—24th & Blake Sts.
Detroit, Mich.—400 Barlum Bldg.
Broadway and Grand River Aves.
Indianapolis, Ind.—401 Penway Bldg.
Kansas City, Mo.—906 Davidson Bldg.
Milwaukee, Wis.—1801 St. Paul Ave.
New York City, N. Y.—40 W. 40th St.
Omaha, Nebr.—413 S. 10th St.
Philadelphia, Pa.—25th & Reed Sts.
Pittsburgh, Pa.—502 Maloney Bldg.
San Francisco, Cal.—2d & Townsend Sts.
Seattle, Wash.—Holgate & Utah Sts.
St. Louis, Mo.—4201 Duncan Ave.
St. Paul, Minn.—Minnehaha & Prior Av.
Washington, D. C.—1308 "H" St., N. W.

ARCOLA

Reg. U. S. Pat. Off.

Hot-water Radiator Heating Outfit

For Ideal Vecto Heater See Page 383

for small homes---stores---offices---garages---and other buildings

A Radiator-Boiler in One

ARCOLA is a complete hot-water heating plant, designed for small homes and buildings. Set in the living room, dining room or kitchen, it warms the room in which it stands, and is connected by pipes with American Radiators in the other rooms.

Easy to Install

ARCOLA can be installed quickly and easily in either new houses or old. Pipes can be either hidden or exposed. In any small home up to seven rooms ARCOLA will furnish the same perfect warmth that our larger Ideal Boilers give to larger buildings.

Adds to Sale or Rental Value

The ARCOLA warmed home rents for more or sells for more. It is therefore a wise investment especially for the builder who builds to sell.

Low-Priced—Saves Fuel

ARCOLA is not expensive. It costs surprisingly little and saves so much fuel compared with other types of heating that it soon pays back its cost.

Designed in two models



The New

ARCOLA PARLOR

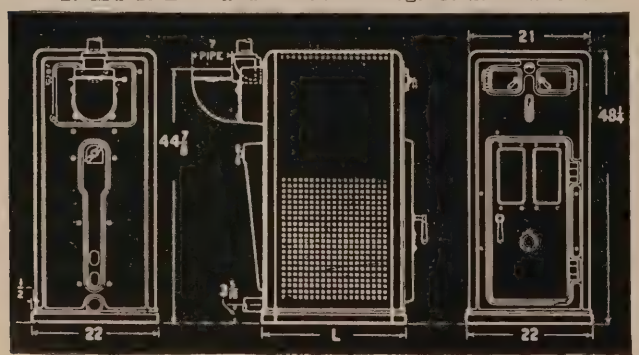
So beautiful it is an ornament in *any* room. Its gray porcelain enamel jacket keeps permanently clean. Glow panels give the effect of an open fire. Automatic control; it almost runs itself.

Dimensions and Ratings

Outfit consists of IDEAL ARCOLA Parlor Heater completely equipped, regular 38-inch high American Peerless 3-column Radiators in quantities as listed below, assembled into as many individual radiator units as desired. Expansion Tank, Drain Valve and Vent Fitting.

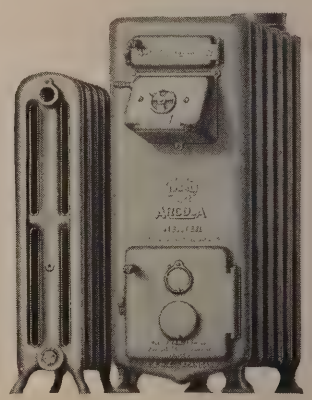
No. of Boiler	No. of Sections	Water Rating Sq. Ft.	Grate Area Sq. Ft.	Hard Coal Fuel Cap. Lbs	Length "L" Inches	Size of Outlets and Inlets	Chimney Size Inches	Chimney Height Feet
40	4	375	.81	66	17	2½	8x8	25
50	5	500	1.08	88	20½	2½	8x8	25
60	6	625	1.35	110	24	2½	8x8	30
70	7	750	1.62	132	27½	2½	8x8	30

T. M's IDEAL and ARCOLA Reg. U. S. Pat. Off.



ARCOLA HEATER

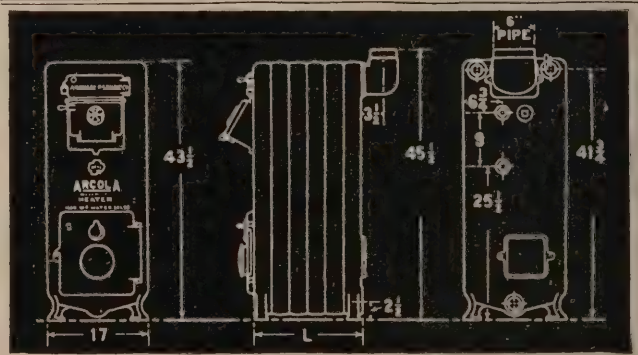
Non-jacketed—low priced, adapted for the attachment of automatic regulation; otherwise the same efficient boiler as ARCOLA PARLOR. Installed in over 100,000 homes, offices, shops, garages.



Dimensions and Ratings

See Current Trade Discount Sheets for prices and shipping weights. IDEAL ARCOLA Heaters are shipped complete in crate. Oval smoke pipe connection will take 6 in. diameter smoke pipe. Flow pipe tapping, 2-2 in. Return pipe tapping, 2 in.

Number of Boiler	Number of Sections	Rating Square Feet	Fuel Capacity Pounds	Length "L" Inches	Rad. Sur. of Arcola & exp. tank sq. ft.
No. 4H	4	200	60	12	45
No. 5H	5	300	80	15	50
No. 6H	6	400	100	18	55
No. 7H	7	500	120	21	60
No. 8H	8	600	140	24	65



For further details and literature, write to: **AMERICAN RADIATOR COMPANY** 1807 Elmwood Ave. BUFFALO, N. Y.

IDEAL BOILERS and AMERICAN RADIATORS

Manufactured by

AMERICAN RADIATOR COMPANY

General Sales Offices, 1807 Elmwood Ave., Buffalo, N. Y.

IDEAL ARCO ROUND BOILER

for homes and other buildings—burns all kinds of fuel

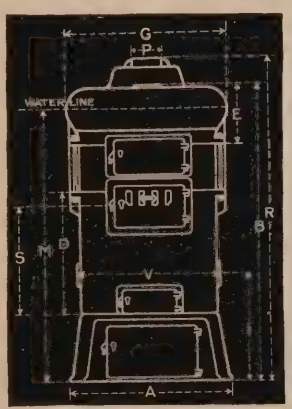
FOR HOMES and all other buildings within the limits of its rated capacities, the IDEAL ARCO Round Boiler may be offered with one of the greatest recommendations that any boiler can command—years of distinguished service. Today it is undoubtedly the most popular boiler of its kind in America.

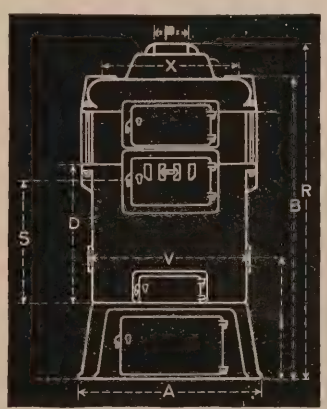
TO THE DESIGN and construction which have made the reputation of the Ideal Arco Round Boiler, there have been added several improvements. Outstanding among these is the increase in the boiler's direct, fire-contact heating surface, fuel capacity and heat-generating capacity.

The quick heating response and economy of operation are due in large measure to its exclusive Third Nipple construction. This construction effects a continuous, rapid, unimpeded circulation of the water within the boiler—giving to it an exceptional "pick-up" capacity. In the case of the water boiler, hot water begins to rise out of the boiler and flow through the heating system almost immediately after the fire is lighted; while in the steam boiler, the quickest possible steam generation after firing is insured.

Balancing the Third Nipple construction is the large, well designed fire pot, the carefully proportioned flue areas and gas travel. The entire design is calculated to give the best performance under chimney conditions as they are actually found in practice, and at the same time maintain the greatest economy of fuel consumption.









Steam Boiler Ratings and Data

Number of Boiler	Steam Rating Sq. Ft.	Water Line Ins.	Grate Area Sq. Ft.	Hard Coal Fuel Capacity Lbs.	Size of Outlet and Inlet Ins.*	Chimney Size Ins.	Chimney Height Ft.
S-1704	350	47	1.40	140	2½	8x8	30
S-1904	500	45	1.88	184	2½	8x8	30
S-2004	625	46	2.23	217	3	8x8	30
S-2204	775	47	2.62	268	3	10x10	35
S-2504	950	48	3.53	355	3½	10x10	35
S-2804	1200	49	4.36	476	4	10x10	35
S-3104	1500	51	5.30	608	4	12x12	40
S-1705	400	51	1.40	140	2½	8x8	30
S-1905	550	50	1.88	184	2½	8x8	35
S-2005	675	51	2.23	217	3	8x8	35
S-2205	825	52	2.62	268	3	10x10	35
S-2505	1025	53	3.53	355	3½	10x10	40
S-2805	1300	54	4.36	476	4	12x12	40
S-3105	1600	56	5.30	608	4	12x12	40
S-1706	450	56	1.40	140	2½	8x8	35
S-1906	600	55	1.88	184	2½	8x8	35
S-2006	725	55	2.23	217	3	10x10	35
S-2206	875	56	2.62	268	3	10x10	40
S-2506	1100	58	3.53	355	3½	10x10	40
S-2806	1400	59	4.36	476	4	12x12	45
S-3106	1700	62	5.30	608	4	12x12	45

*Steam boilers have one outlet and two inlets.
Safety Valve sizes accord with A.S.M.E. boiler code.

Water Boiler Ratings and Data

Number of Boiler	Water Rating Sq. Ft.	Grate Area Sq. Ft.	Hard Coal Fuel Capacity Lbs.	Size of Outlet and Inlet Ins.*	Chimney Size Ins.	Chimney Height Ft.
W-1704	600	1.40	140	2½	8x8	30
W-1904	850	1.88	184	2½	8x8	30
W-2004	1050	2.23	217	3	8x8	30
W-2204	1300	2.62	268	3	10x10	35
W-2504	1575	3.53	355	3½	10x10	35
W-2804	1975	4.36	476	4	10x10	35
W-3104	2475	5.30	608	4	12x12	40
W-1705	675	1.40	140	2½	8x8	30
W-1905	925	1.88	184	2½	8x8	35
W-2005	1125	2.23	217	3	8x8	35
W-2205	1375	2.62	268	3	10x10	35
W-2505	1700	3.53	355	3½	10x10	40
W-2805	2150	4.36	476	4	12x12	40
W-3105	2650	5.30	608	4	12x12	40
W-1706	750	1.40	140	2½	8x8	35
W-1906	1000	1.88	184	2½	8x8	35
W-2006	1200	2.23	217	3	10x10	35
W-2206	1450	2.62	268	3	10x10	40
W-2506	1825	3.53	355	3½	10x10	40
W-2806	2325	4.36	476	4	12x12	45
W-3106	2825	5.30	608	4	12x12	45

*Water boilers have two outlets and two inlets.

For further details and literature, write to: **AMERICAN RADIATOR COMPANY** 1807 Elmwood Ave. BUFFALO, N. Y.

Richardson Boilers for Steam and Hot Water Heating

Manufactured by

RICHARDSON & BOYNTON CO.

Since 1837

Executive Offices 260 Fifth Ave., New York City

Factory Dover, N. J.

For Branch Offices See Page 367

Other Products

Warm Air Heaters, Pipeless Furnaces, pages 367-369.
Gas, Coal and Combination Ranges, pages 430-433.
Hot Water, Laundry and Tank Heaters, page 400.

Richardson Round Sectional Boilers

for Steam, Vapor and Hot Water

These boilers are particularly adapted for private residences as they are simple and easy to operate, powerful and economical. They have large feed doors for firing and ample cleanout and ashpit doors and will carry sufficient fire over night so that the house is warm in morning. Water boilers have a special dome section for water heating and wall waterways through boiler are small producing a rapid circulation of water over heating surfaces and absorbing the heat units as they are given off from the fire and heated gases. All heating surfaces are within boiler and surrounded by water passages.

Construction



Base and Grate Section

Round boilers for steam and hot water are made up of several sections. The base section is fitted with "Perfect" revolving triangular grate bars which are durable and very effective in keeping the fire clear and free from clinkers. Ash pits have large doors, fitted with an air inlet butterfly draft door for supplying oxygen to fuel. This draft door is operated from the automatic damper regulator of steam boilers, and with a ratchet on water boilers.

The fire pot section is above the ash pit, is heavily corrugated on the inside. Fire pot is deep so that fire can be run at low rate of combustion and only require attention at long intervals. These sections are fitted with two openings in the rear so water for domestic purposes can be heated from a coil in fire box. Flue openings are arranged so that fire travel is staggered—the opening in one section going below the heating surfaces in the section above—so there is no waste of heat.

Connections between all sections are made with extra heavy machine cut tapered cast iron nipples fitted into tapered openings in the section, thus making a perfectly tight iron to iron joint, without the use of any lead or packing.



Fire Pot Section



Dome Section

The top or dome section offers a large amount of heating surface which produces ample heat with an economical consumption of fuel.

Every Richardson Boiler has a deep fire chamber with corrugated sides and over the fire a large amount of active heating surface, properly proportioned for the rating of boilers.

All boilers have cored openings in fire pot for coil; and steam boilers have tapping in dome section, right side, for indirect water heater. Steam Boilers can be fitted with fusible plugs.

All boilers can be arranged with grates for burning the smaller sizes of coal.



Steam—Front View No. 19 Series

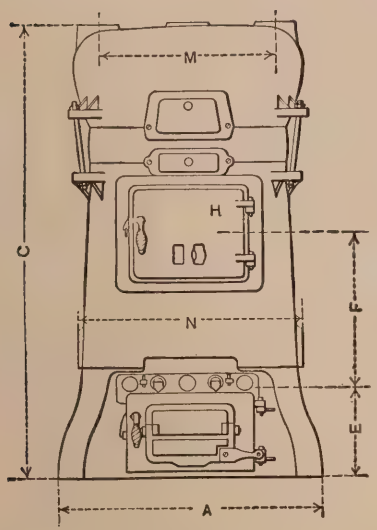


Water—Front View No. 22 and 25 Series



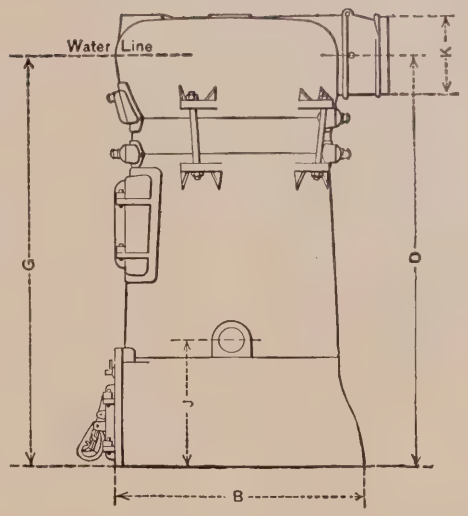
Steam—Sectional View No. 28 Series

For dimensions see next page



Rating of Richardson Boilers

Richardson Boilers are rated according to accurate standards and upon the assumption that sufficient radiation will be used, the piping system properly arranged and the boiler connected to a flue of ample capacity and good draft, with steam at 2 lbs. boiler pressure and with hot water at a temperature of 180 degrees Fahrenheit. It is good practice to order a one size larger boiler than measurements call for. When a pipe coil or cast iron section is placed in boiler for heating water for domestic uses, additional capacity must be figured. To secure best heating results boilers should be covered with asbestos cement.



Round Boiler Measurements

Table of distances between points as indicated on line drawings above. All measurements are given in inches.

	For Steam and Water										For Steam Only		For Water Only
Size	A	B	D	E	F	H	J	K	M	N	C	G	C
190	30¼	28¼	45⅜	10	17½	10 x12½	14⅜	8	20⅛	25½	47½	42½	45¼
191	30¼	28¼	49⅝	10	17½	10 x12½	14⅜	8	20⅛	25½	51½	46½	49¼
192	30¼	28¼	53⅝	10	17½	10 x12½	14⅜	8	20⅛	25½	55½	50½	53¼
221	33¼	32	50⅝	10½	18	10 x13¾	15½	9	22	28	53	48¼	50½
222	33¼	32	55¼	10½	18	10 x13¾	15½	9	22	28	57	52¼	54½
223	33¼	32	59¼	10½	18	10 x13¾	15½	9	22	28	61	56¼	58½
251	36	34½	52¼	11¼	18	10 x15½	16¼	10	24⅞	31⅜	54¼	49½	52
252	36	34½	56¼	11¼	18	10 x15½	16¼	10	24⅞	31⅜	58¼	53½	56
253	36	34½	60⅜	11¼	18	10 x15½	16¼	10	24⅞	31⅜	62¼	57½	60
281	40	38¼	53¾	11¼	18	10½x16	16⅞	10	28	34¾	55¾	51	53¼
282	40	38¼	57¾	11¼	18	10½x16	16⅞	10	28	34¾	59¾	55	57¼
283	40	38¼	62	11¼	18	10½x16	16⅞	10	28	34¾	63¾	59	61¼

19 Series Round Sectional

Steam

No.	Height to Top Outlet Inches	Nom. Diam. Grate Ins.	Grate Area Sq. Ft.	Height Water Line Inches	Outlets No. and Size	Inlets No. and Size	8 Hour Ratg. Sq.Ft.
190	47½	19	1.97	42½	2–2½	2–2½	300
191	51½	19	1.97	46½	2–2½	2–2½	350
192	55½	19	1.97	50½	2–2½	2–2½	375

Water

190	45¼	19	1.97	....	2–2½	2–2½	500
191	49¼	19	1.97	....	2–2½	2–2½	575
192	53¼	19	1.97	....	2–2½	2–2½	625

Size of smoke-pipe 19 in. Series, 8 in.

28 Series Round Sectional

Steam

No.	Height to Top Outlet Inches	Nom. Diam. Grate Inches	Grate Area Sq.Ft.	Height Water Line Inches	Outlets No. and Size	Inlets No. and Size	8 Hour Ratg. Sq. Ft.
281	55¾	28	4.28	51	2–3½	2–3½	875
282	59¾	28	4.28	55	2–3½	2–3½	950
283	63¾	28	4.28	59	2–3½	2–3½	1025

Water

281	53¼	28	4.28	....	2–3½	2–3½	1350
282	57¼	28	4.28	....	2–3½	2–3½	1550
283	61¼	28	4.28	....	2–3½	2–3½	1675

Size of smoke-pipe 10 in.

22 and 25 Series Round Sectional

Steam

No.	Height to Top Outlet Inches	Nom. Diam. Grate Inches	Grate Area Sq. Ft.	Height Water Line Inches	Outlets No. and Size	Inlets No. and Size	8 Hour Ratg. Sq.Ft.
221	53	22	2.64	48¼	2–2½	2–2½	450
222	57	22	2.64	52¼	2–2½	2–2½	500
223	61	22	2.64	56¼	2–2½	2–2½	550
251	54¼	25	3.41	49½	2–3	2–3	625
252	58¼	25	3.41	53½	2–3	2–3	675
253	62¼	25	3.41	57¼	2–3	2–3	725

Water

221	50½	22	2.64	....	2–2½	2–2½	750
222	54½	22	2.64	....	2–2½	2–2½	825
223	58½	22	2.64	....	2–2½	2–2½	900
251	52	25	3.41	....	2–3	2–3	1025
252	56	25	3.41	....	2–3	2–3	1100
253	60	25	3.41	....	2–3	2–3	1200

Size of smoke-pipe 22 in. Series, 9 in.; 25 in. Series, 10 in.

Guarantee:

Every Richardson Boiler is sold under a guarantee as to its perfection in manufacture and its ability to carry the rating shown in our printed matter, providing that a sufficient amount of radiation is installed, the piping system properly run, and the boiler connected to a flue of sufficient size and draft for the size of the fire box.

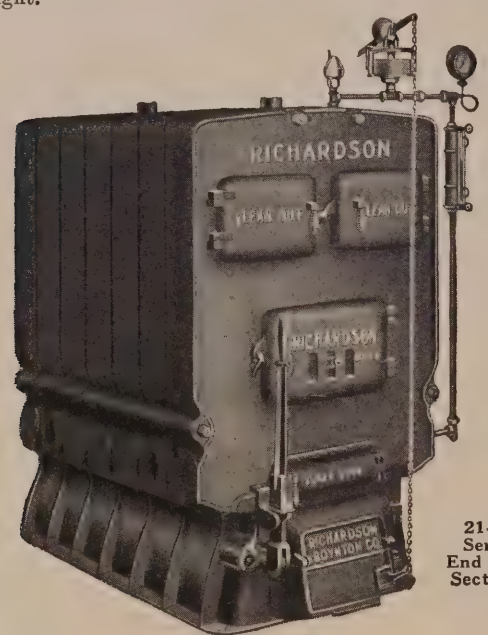
End Feed Square Sectional Boilers for Steam, Vapor and Water:

These boilers are made in sizes to meet any steam, hot water or vapor heating requirement. Their principal features are the ease with which they are operated, their ability to carry their ratings for long periods and economical operating expense. This means securing the proper proportion and arrangement of the heating surface to the grate area with large flues, admitting of a low rate of combustion.

Richardson boilers present a large amount of correctly proportioned direct heating to the fire, yet with a long fire travel to hold back gases and prevent their too rapid escape to the smoke outlet. Equipped with deep fire pots and high combustion chambers. Ample provision has been made for easy firing and cleaning. Two large upper doors give access to flue surface for cleaning. Fire door is high and wide and through slicer door all parts of grate can be thoroughly cleaned. Ash pit is high and large permitting easy removal of ashes. All boilers have cored openings in back section for coil; and steam boilers are tapped on third section from front (right side) for indirect water heat. Steam boilers can be fitted with fusible plugs.

Grate bars are extra heavy sectional shaking and dumping pattern, operated in sections from the front of the boiler and controlled by a lock plate permitting the bars to be shaken, dumped or locked in position, as desired. Grates can be furnished for burning either large or small size coal.

Any connections between the sections are made with extra heavy cast iron machine cut tapered slip nipples fitted into tapered openings in the section and making the boiler absolutely tight.



21-25 Series End Feed Sectional

21 Series End Feed Sectional

Steam

No.	Total Length Inches	Grate Area Sq. Ft.	Water Line Inches	*Outlets Inches	Ashpit (Inside) Inches	8 Hour Rating Sq. Ft.
214	36	2.27	43	1–3	22x24½	500
215	42¼	3.01	43	1–3	22x30¾	650
216	48½	3.75	43	2–3	22x37	800
217	54¾	4.49	43	2–3	22x43¼	925

Castings only, Height, 49½ in. Width, 32 in.

Water

214	36	2.27	....	2–3	22x24½	800
215	42¼	3.01	....	2–3	22x30¾	1050
216	48½	3.75	....	3–3	22x37	1300
217	54¾	4.49	....	3–3	22x43¼	1500

*For each outlet there are two inlets of the same size—one on each side. Size of smoke-pipe, 9 in.

25 Series End Feed Sectional

Steam

No.	Total Length Inches	Grate Area Sq. Ft.	Water Line Inches	*Outlets Inches	Ashpit (Inside) Inches	8 Hour Rating Sq. Ft.
255	48¾	4.57	48¼	2–3½	27½x35½	1000
256	56	5.70	48¼	2–3½	27½x42¾	1250
257	63¼	6.83	48¼	2–3½	27½x50	1500
258	70½	7.97	48¼	2–3½	27½x57¼	1700

Castings only, Height, 55 in. Width, 39 in.

Water

255	48¾	4.57	....	2–3½	27½x35½	1600
256	56	5.70	....	3–3½	27½x42¾	2000
257	63¼	6.83	....	3–3½	27½x50	2400
258	70½	7.97	....	3–3½	27½x57¼	2800

*For each outlet there are two inlets of the same size, one on each side Size of smoke-pipe, 12 in.



35-42 Series End Feed Sectional

35 Series End Feed Sectional

Steam

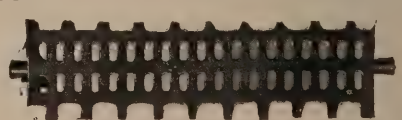
No.	Total Lengt Inches	Grate Area Sq. Ft.	Water Line Inches	*Outlets Inches	Ashpit (Inside) Inches	8 Hour Rating Sq. Ft.
355	47¼	7.85	56	2–4	39x33¼	1950
356	55½	9.81	56	2–4	39x41½	2400
357	64	11.75	56	3–4	39x50	2850
358	72¼	13.70	56	3–4	39x58¼	3300
359	80½	15.65	56	3–4	39x66½	3750

Castings only, Height, 63 in. Width, 48 in.

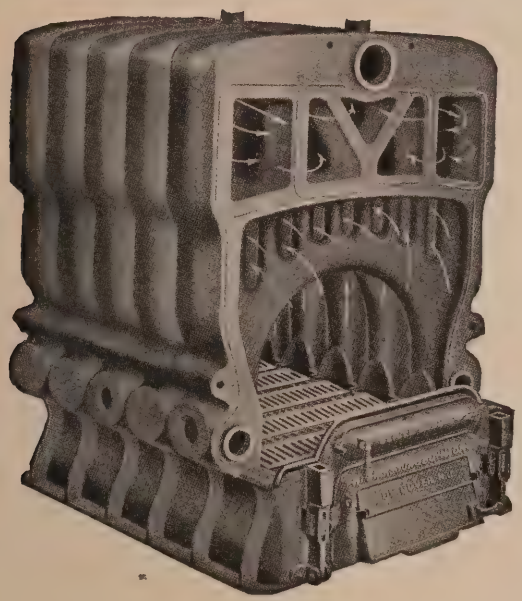
Water

355	47¼	7.85	....	3–4	39x33¼	3125
356	55½	9.81	....	3–4	39x41½	3850
357	64	11.75	....	4–4	39x50	4575
358	72¼	13.70	....	4–4	39x58¼	5300
359	80½	15.65	....	5–4	39x66½	6025

*For each outlet there are two inlets of the same size, one on each side. Size of smoke-pipe, 14 in.



Ribbed Grate Bar



Sectional view of End Feed Steam and Hot Water Boiler

42 Series End Feed Sectional

Steam

No.	Total Length Inches	Grate Area Sq. Ft.	Water Line Inches	*Outlets Inches	Ashpit (Inside) Inches	8 Hour Rating Sq. Ft.
427	64	13.82	59	2–5	45x50	3500
428	72¼	16.11	59	2–5	45x58¼	4050
429	80½	18.40	59	2–5	45x66½	4600
4210	88¾	20.69	59	3–5	45x74¾	5150
4211	97	22.98	59	3–5	45x83	5700

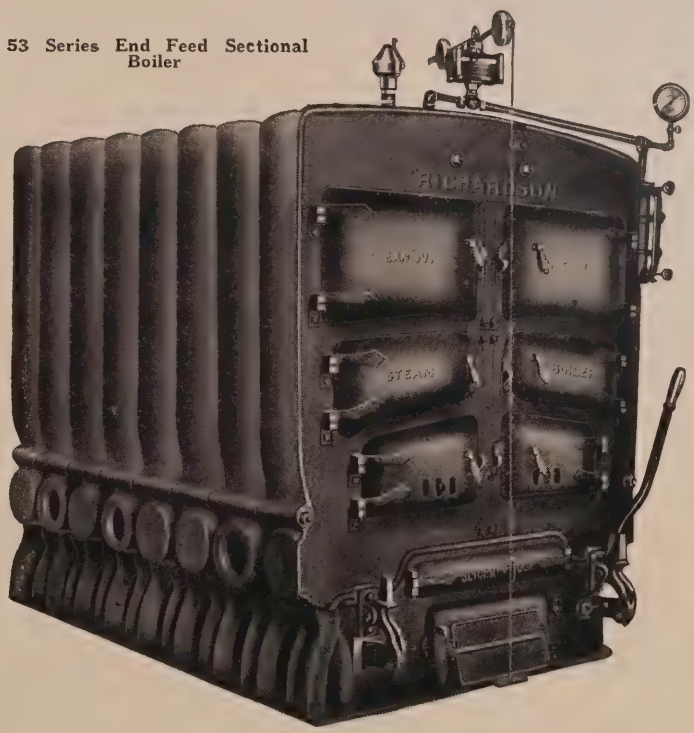
Casings only. Height, 68 in. Depth, 54 in.

Water

427	64	13.82	....	3–5	45x50	5600
428	72¼	16.11	....	3–5	45x58¼	6500
429	80½	18.40	....	3–5	45x66½	7400
4210	88¾	20.69	....	4–5	45x74¾	8300
4211	97	22.98	....	4–5	45x83	9200

*For each outlet there are two inlets of the same size, one on each side. Size of smoke pipe, 16 in.

53 Series End Feed Sectional Boiler



Steam

No.	Total Length Inches	Grate Area Sq. Ft.	Water Line Inches	*Outlets Inches	Ashpit (Inside) Inches	Rating Sq. Ft.
536	78¼	18.94	70½	2–6	55x55	6300
537	89	22.68	70½	2–6	55x65¾	7300
538	99¾	26.40	70½	3–6	55x76½	8300
539	110½	30.12	70½	3–6	55x87¼	9300
5310	121¼	33.88	70½	3–6	55x98	10300

Castings only, Height, 82 in. Width, 69½ in.

Water

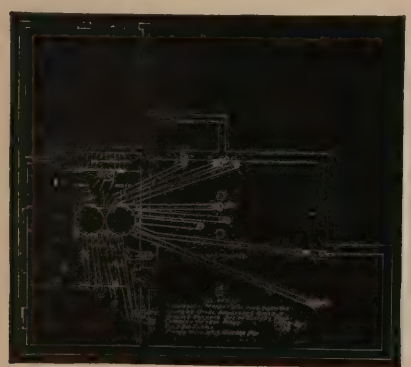
536	78¼	18.94	....	2–6	55x55	10000
537	89	22.68	....	2–6	55x65¾	11600
538	99¾	26.40	....	3–6	55x76½	13200
539	110½	30.12	....	3–6	55x87¼	14800
5310	121¼	33.88	....	3–6	55x98	16400

*For each outlet there are two 4-inch inlets on steam boilers—one on each side, and two 6-inch inlets on water boilers—one on each side; also two 4-inch returns in back section of each boiler. Size of smoke-pipe, 6 and 7 section, 17 in.; 8 section, 19 in.; 9 and 10 section, 21 in.

Free Heating Engineering Service

Efficient and economical heating is a science—not guess work. Richardson & Boynton Company maintains a very efficient engineering staff whose business is to solve heating problems.

This service is *free* to anyone. It is free because the great business of Richardson & Boynton Company is built upon the satisfactory performance of their heating equipment. Winter comfort is certain if you have a heating plant of the proper size installed according to plans approved by our engineers. *Avail yourself of this free service.*

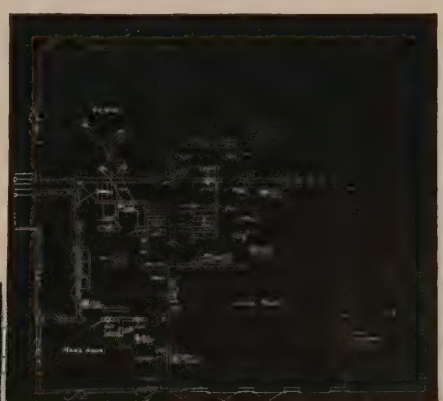


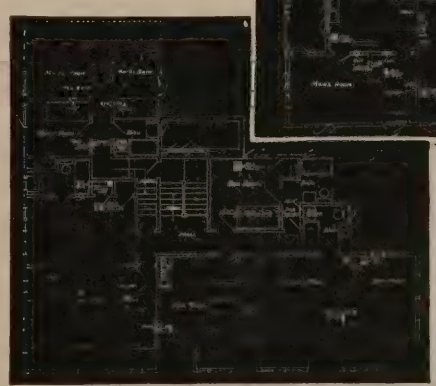
THE CELLAR PLAN

Good engineering requires a plan that will give the necessary rise to the long pipes. It calls for suitable chimney connections. It calls for pipe arrangement to deliver full volume of properly warmed air to each register, continuously.

THE GROUND FLOOR PLAN

Even temperatures upstairs and down is the end to which the engineers work. The living room you will notice has three registers. It would not be a living room if it were cold in winter. The family would live upstairs. The engineers know on which side of the house the winter winds blow and have made provision accordingly.





THE SECOND FLOOR PLAN

Cold bedrooms mean incorrect engineering. An adequate heating system and good engineering insures a comfortable temperature in every room. People used to think that it was impossible to have comfortable rooms on the "cold" side of the house if a warm air heating system were used. The Perfect Positive and Richardson & Boynton engineers have proved not only that it is possible, but certain. The Company guarantees performance under bond.

For further details and literature, write to: **RICHARDSON & BOYNTON CO., NEW YORK CITY**

FOR STEAM HEATING

SEMCO HEATING SYSTEMS

FOR HOT WATER HEATING

Made by

STANDARD ENGINEERING AND MANUFACTURING CO.

PITTSBURGH, PA.

Products

The products of this company are Boilers for Steam, Hot Water and Vapor Heating together with all necessary accessories for making a complete installation. As all Boilers, etc., used in Semco Heating Systems are made in our own plant, we know that the quality of all materials is the best obtainable, and the workmanship that of skilled artisans experienced in the manufacture of heating equipment. Materials and workmanship are covered by our guarantee.

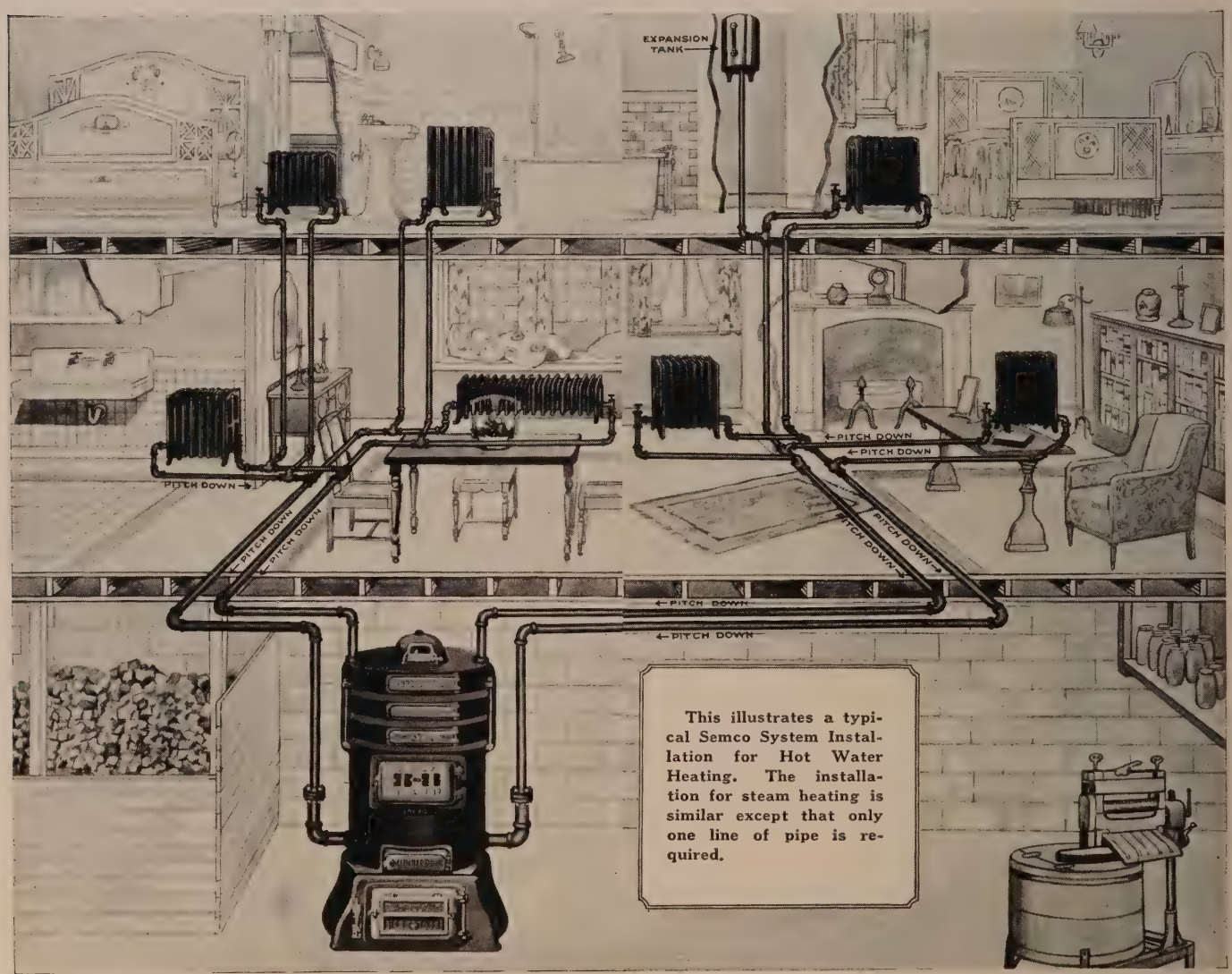
Engineering Service

Building contractors are invited to write to our Engineering Department for Heating Plans and Specifications which may be submitted for estimate. Regardless of the design of the building, our Engineering Department will work out the heating details complete and without obligation. Furthermore, where the Semco System is installed we will co-operate with the contractor in order to obtain the best possible results.

When writing for this service, send the plans or a sketch of the building to be heated. State the dimensions of each room, size and location of windows and outside doors, depth of basement, and size and height of flue. State, also, the temperature you wish to preserve in the building, the maximum winter temperature of your locality, the direction in which building faces, and whether it stands in an exposed position or is sheltered by adjacent buildings.

Catalog on Request

On opposite page are shown some of our Boilers, Radiators and Accessories. Write for catalog which contains complete information on everything required for installing a Semco Heating System.



This illustrates a typical Semco System Installation for Hot Water Heating. The installation for steam heating is similar except that only one line of pipe is required.

For further details and literature, write to: STANDARD ENGINEERING & MFG. CO., Farmers Bank Bldg., PITTSBURGH, PA.

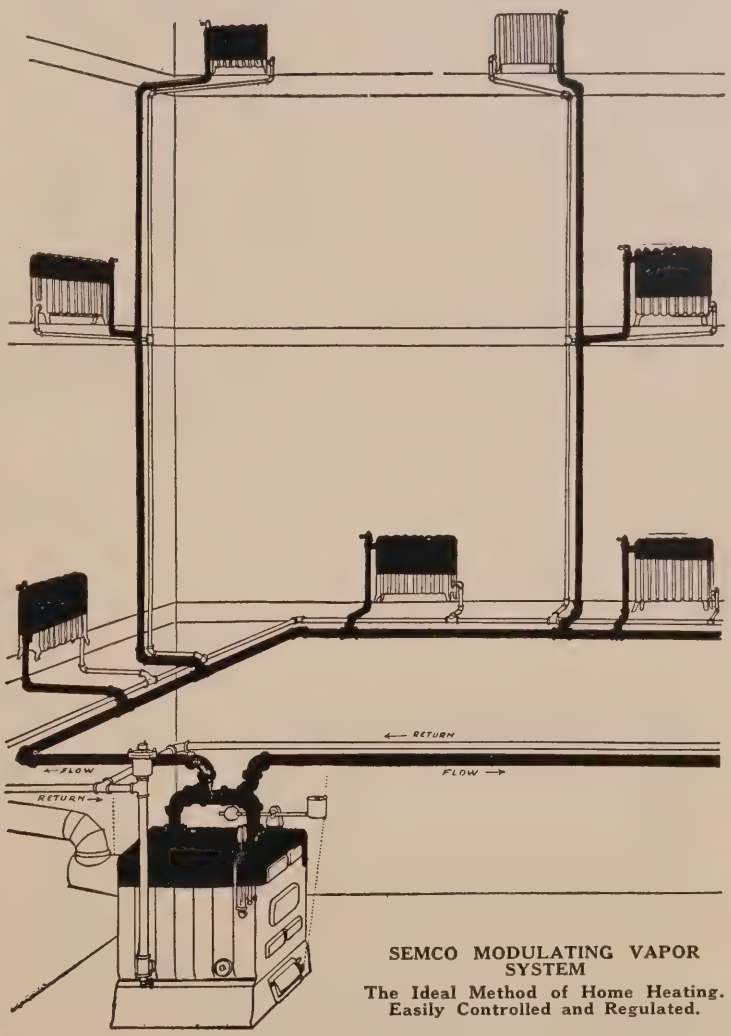
SEMCO HEATING SYSTEMS (Continued)

Semco Vapor Heating

The diagram at right shows a typical installation of a Semco Vapor Heating System. This system is applicable to all types of buildings heating with low pressure boilers and never fails to give splendid satisfaction. It requires little attention and is free from the frequent adjustments and repairs required by more complicated heating systems.

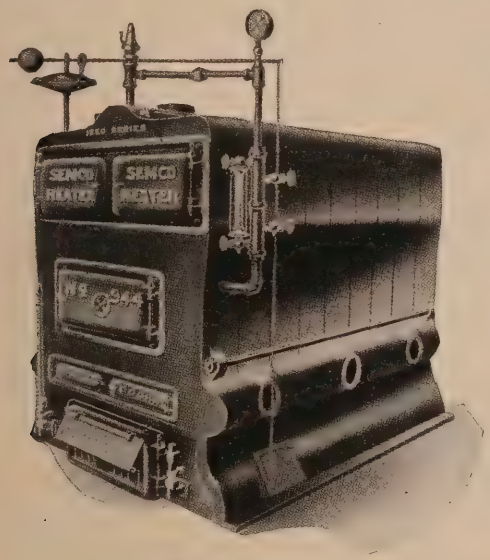
Many hundreds of installations in all parts of the country, under the supervision of our experienced engineers, have demonstrated the correctness of this system and the efficiency of our Boilers, Radiators, Valves and Traps.

We are always glad to co-operate with building contractors and invite you to write for copy of our catalogs on Steam, Vapor and Hot Water Heaters, or to submit blue-print plans of building for definite heating recommendations.

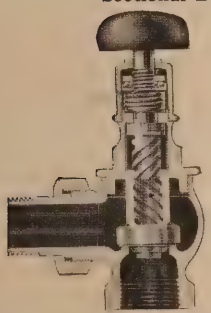


SEMCO MODULATING VAPOR SYSTEM

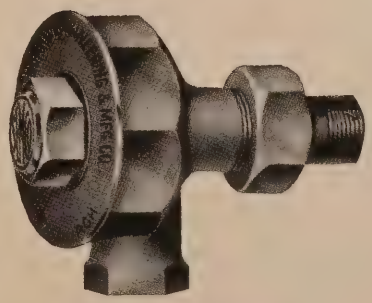
The Ideal Method of Home Heating. Easily Controlled and Regulated.



Sectional Boiler



Semco Modulating Valve



Semco Thermostatic Trap

The Valves and Traps used in Semco Vapor Heating are of the simplest imaginable design. All mechanical complications likely to cause trouble have been eliminated. The Semco System can be operated by a child with just as good results as by an expert.



Single Column



Two Column

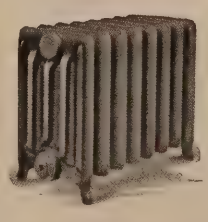


Three Column

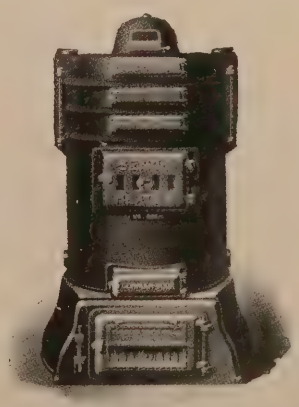


Four Column

SEMCO RADIATORS



Five Column



Upright Boiler

For further details and literature, write to: **STANDARD ENGINEERING & MFG. CO.,** Farmers Bank Bldg., PITTSBURGH, PA.

SPENCER MAGAZINE FEED HEATER

Manufactured by

STANDARD HEATER COMPANY

Plant and General Offices—Williamsport, Pa.

Sales Representatives in Principal Cities

Saves by Burning No. 1 Buckwheat

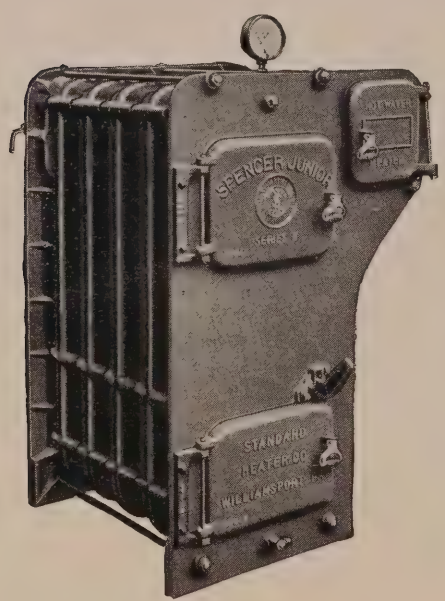
Spencer Heaters are built to burn No. 1 Buckwheat Coal. Approximately one-seventh of the total production of Anthracite is No. 1 Buckwheat, the supply of which is greatly in excess of the demand for heating purposes, and as a consequence, the delivered price is from $4 to $7 per ton less than the larger sizes. When burned in a Spencer Heater, No. 1 Buckwheat has as much heat value as the so-called domestic sizes—and no more tons are required. Attention to the heater is necessary but once or twice a day, depending upon weather conditions.

Magazine Feed Makes Steady Heat

The coal feeds by gravity from the magazine as needed for the fire, insuring a uniform, steady heat. No blowers or other mechanical contrivances—simple to install and operate. Nothing to get out of order.

Spencer Heated Buildings sell better and rent more readily because of greater economy, convenience and comfort features.

Write for descriptive literature.



SPENCER JUNIOR
Series B
Hot Water Heater

This heater is designed for heating small buildings by hot water circulation. It is equipped with combination thermometer and altitude gauge and automatic regulator for heat control.



Dimensions and Capacities

No. of Boiler	*Net Rad. Sq. Ft.	No. 1 Buck. Coal Cap. Lbs.	Width Inches	Length Inches	Size of Outlets Inlets	Chimney Size Inches	Chimney Height Feet
B-4	375	50	34½	17	3	8 x 8	30
B-5	500	75	34½	23	3	8 x 8	30
B-6	625	100	34½	29	3	8 x 8	35
B-7	750	125	34½	35	3	8 x 8	35
B-8	875	150	34½	41	3	10 x 10	35

*"Net radiation" figures for steam and water shown in tables are not the usual "commercial" ratings, but are conservative figures of the actual amount of radiation recommended for the boiler to carry in order to assure heat satisfaction.

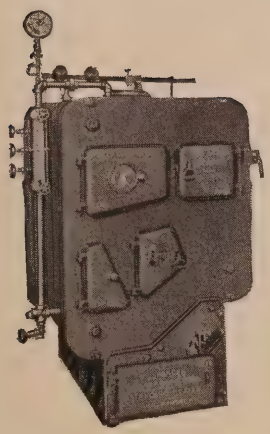


Typical residence for which Spencer Junior is ideally adapted

For further details and literature, write to: **STANDARD HEATING COMPANY, Williamsport, Pa.**

SPENCER MAGAZINE FEED HEATERS
STEAM—VAPOR—HOT WATER

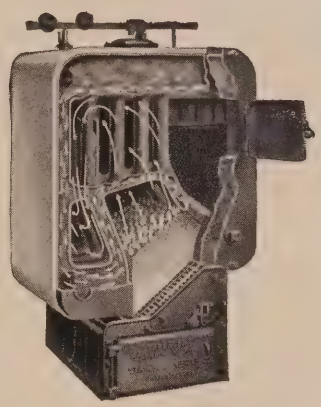
Size and Type for Every Heating Job



Two Views of

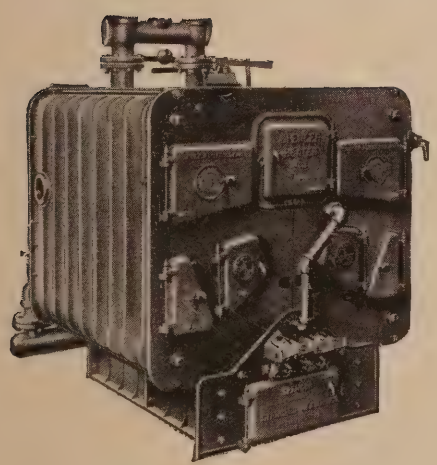
No. 1 Spencer Heater

Specially designed for buildings of medium size. Cutaway view at right shows magazine feed that saves labor of frequent stoking, and saves coal by feeding it to the fire only as needed.



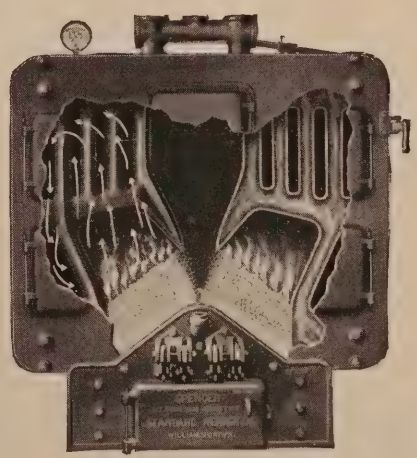
Dimensions and Capacities

No. of Boiler	*Net Rad. Sq. Ft. Steam	Water	No. 1 Buck. Coal Cap. Lbs.	Width Inches	Length Inches	Size of Outlets Inlets	Chimney Size Inches	Chimney Height Feet
1–5	500	800	164	46¾	49⅞	4	10 x 10	30
1–6	600	950	212	46¾	56⅛	4	10 x 10	35
1–7	700	1100	261	46¾	62⅜	4	10 x 10	35
1–8	800	1300	309	46¾	68⅝	4	12 x 12	35
1–9	900	1450	358	46¾	74⅞	4	12 x 12	35



No. 2 Spencer Heater

A double grate heater for larger buildings. In mild weather, fire can be carried on one grate only. These and other types, including steel tubular Spencers for quite large buildings, described in special literature sent on request.



Dimensions and Capacities

No. of Boiler	*Net Rad. Sq. Ft. Steam	Water	No. 1 Buck. Coal Cap. Lbs.	Width Inches	Length Inches	Size of Outlets Inlets	Chimney Size Inches	Chimney Height Feet
2–6	1100	1750	348	57⅝	70	2–4	10 x 10	35
2–7	1300	2100	435	57⅝	76¼	2–4	12 x 12	35
2–8	1500	2400	522	57⅝	82½	2–4	12 x 12	35
2–9	1800	2900	609	57⅝	88¾	2–4	12 x 12	35
2–10	2100	3400	696	57⅝	95	2–4	12 x 12	40

*"Net radiation" figures for steam and water shown in tables are not the usual "commercial" ratings, but are conservative figures of the actual amount of radiation recommended for the boiler to carry in order to assure heat satisfaction.

Spencer — a Successful Heater for more than Thirty Years

For further details and literature, write to: **STANDARD HEATING COMPANY, Williamsport, Pa.**

FOR STEAM HEATING

THATCHER ROUND BOILER

HOT WATER HEATING

Made by

THE THATCHER COMPANY

Formerly THATCHER FURNACE CO.

General Offices: THATCHER BUILDING
39-41 Francis St., Newark, N. J.

EASTERN DISPLAY ROOMS
21 West 44th St.
New York

WESTERN DISPLAY ROOMS
341 N. Clark St.
Chicago

Thatcher Products Include

Boilers
Round Boilers
Thatcher Sectional
Thatcher Progress
Hot Water Supply Heaters
Garage Heaters

Furnaces
Celebrated Thatcher Tubular
Meteor Furnaces
Pipeless Furnaces
School Room Heaters
Smokeless Furnaces

Ranges
Twin Fire Combination Ranges
Single and Double Oven Ranges
Laundry Stoves
Ship Ranges
Gas Ranges

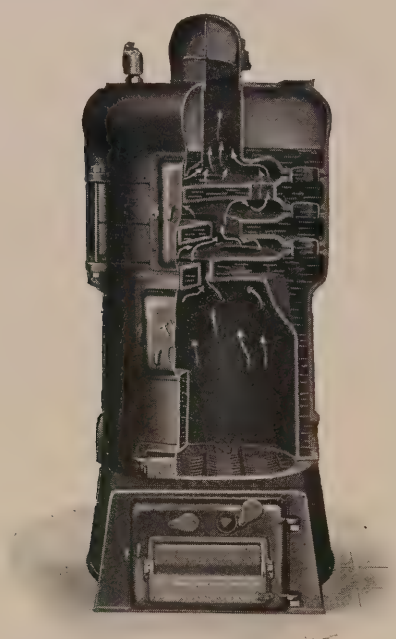
"Makers of GOOD HEATERS Since 1850"

See page 372 for Thatcher Warm Air Furnaces, and page 438 for Thatcher Ranges and Tank Heaters.



Thatcher Round Boilers

The Thatcher line of Round Boilers is made in five series with rated capacities of from 235 to 1650 square feet. There is, therefore, a Thatcher Round Boiler, Steam or Hot Water, exactly suited to any size house for which a boiler of this type is desired.



Thatcher Steam Boiler cut open to show fire travel and circulation of water.

Thatcher Steam Boilers

No.	Rating, Square Feet	Actual Diameter, Grate, Inches	Grate Area, Square Feet	Height to Top Outlet, Inches	Height Water Line, Inches	Flow and Return Openings, Inches
17-0-S	235	17	1.58	41½	38	2-2½
17-1-S	275	17	1.58	46½	42½	2-2½
19-0-S	300	19	2.04	46¾	40	2-3
19-1-S	350	19	2.04	51¼	44½	2-3
19-2-S	400	19	2.04	55¾	49	2-3
22-0-S	450	22	2.64	49¾	42⅜	2-3
22-1-S	525	22	2.64	54⅜	47	2-3
22-2-S	575	22	2.64	59	51⅝	2-3
25-0-S	600	25	3.41	50¼	42¾	2-4
25-1-S	675	25	3.41	55¼	47¾	2-4
25-2-S	750	25	3.41	60¼	52¾	2-4
28-0-S	800	28	4.28	51⅛	43¾	2-4
28-1-S	900	28	4.28	56¼	48⅞	2-4
28-2-S	1000	28	4.28	61⅜	54	2-4

Thatcher Hot Water Boilers

No.	Rating, Square Feet	Actual Diameter, Grate, Inches	Grate Area, Square Feet	Height to Top Outlet, Inches	Flow and Return Openings, Inches
17-0-W	400	17	1.58	37½	2-2½
17-1-W	450	17	1.58	42½	2-2½
19-0-W	500	19	2.04	42½	2-3
19-1-W	575	19	2.04	47	2-3
19-2-W	650	19	2.04	51½	2-3
22-0-W	750	22	2.64	44¾	2-3
22-1-W	875	22	2.64	49⅜	2-3
22-2-W	950	22	2.64	54	2-3
25-0-W	1000	25	3.41	44½	2-4
25-1-W	1150	25	3.41	49½	2-4
25-2-W	1225	25	3.41	54½	2-4
28-0-W	1325	28	4.28	45½	2-4
28-1-W	1500	28	4.28	50⅝	2-4
28-2-W	1650	28	4.28	55¾	2-4

Most Powerful House Heater Made

In competitive tests with other heaters, under identical working conditions, the Thatcher Round Boiler has proven itself to be the most powerful house heater for rated capacity, not only in the number of thermal units transmitted to the water, but in the length of time between firing periods.

Grate surface, flue area and circulation of water are most efficiently equalized. All ratings on Thatcher Boilers have been proven by exhaustive tests under actual firing conditions and show great efficiency of operation and economy of fuel. These ratings have never been changed or inflated.

Increased Heating Surface

Three lobes or bulges extending down inside the combustion chamber greatly increase the direct heating surface. This feature, with an extra large space in the steam dome, means quick, dry steam, and rapid travel through radiators. Deep corrugations on the bottom of the dome double the heating surface and result in getting up steam quickly with a smaller volume of water and with less fuel than the ordinary boiler.

For further details and literature, write to: **THE THATCHER COMPANY, Newark, N. J.**

Thatcher Boilers for Steam and Hot Water (Continued)

Automatic Control

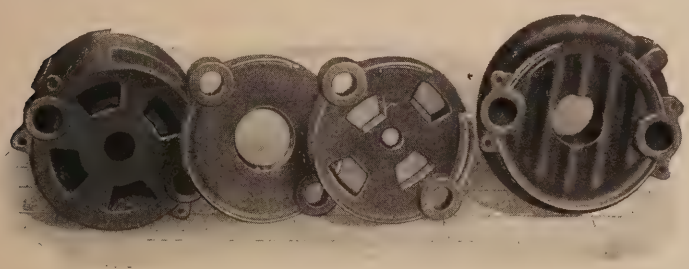
Automatic and absolute control of the drafts is assured by a butterfly door in the ashpit and a sensitive diaphragm attached to the large damper in the smoke hood. Every point can be reached through the large cleanout door. All boilers are tapped so that hot water supply heaters can be easily attached.

Note these Structural Features



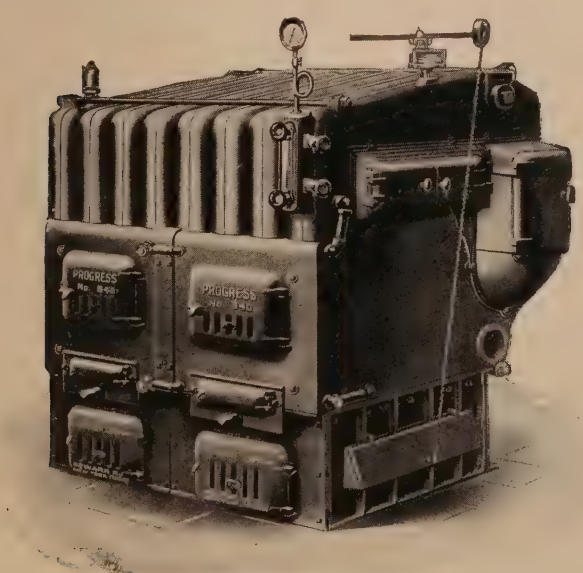
Thatcher Boiler Base with Revolving Triangular Grates

The triangular revolving grates crush and dispose of clinkers. The ashpit is unusually high, giving lots of space for removing ashes, and lessening the possibility of burning out grates.

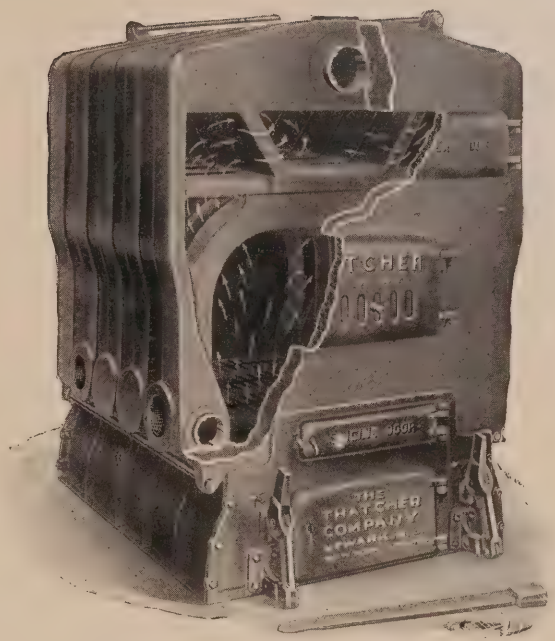


Wheel Sections

Staggered fire travel between and over every part of each section produces far more thermal heating units than any other design.



"Progress" Sectional Steam Boiler
Side Feed—Low Water Line



"Thatcher" Sectional Hot Water Boiler

Thatcher Sectional Boilers for Steam and Hot Water Heating

These sectional boilers are recommended where greater heating capacity is required than is afforded by boilers of the round type.

The Thatcher Sectional Boiler is an end feed boiler of square cross sections with an unusual amount of prime heating surface. The smoke and gases are made to pass three times the length of the boiler (see illustration above) coming in contact with the heating surface at every point. Careful attention has been given to eliminating all pockets or corners where soot might collect and diminish the efficiency of the heating surface.

Waterways and flues have been carefully proportioned to secure the best possible results. In short, nothing that 75 years' experience could suggest has been left undone to make these boilers as efficient and trouble-proof as it is possible for a heating device to be made.

The "Progress" Boiler

The "Progress" Sectional Steam Boiler (illustrated at left) is a distinctly individual type, possessing more points of merit than any other boiler on the market.

The feed doors being placed in the side of the boiler, make it very easy to fire and clean the grates, owing to the short depth of the fire chamber.

The wonderful success of the "Progress" is due to thorough combustion of fuel, and the perfect circulation of the water in each section, caused by the unique triangular construction of the sections coupled with the triple fire travel—advantages which are only found in the "Progress."

Twin Series—2 units installed as one and operated separately in mild weather cutting cost of installation and fuel.

Our booklet, "Thatcher Boilers" will tell you more about the "Progress" Boiler and other steam and hot water boilers of our manufacture. May we mail you a copy?

For further details and literature, write to: **THE THATCHER COMPANY, Newark, N. J.**

Richardson Hot Water Laundry and Tank Heaters

Manufactured by

Since 1837

RICHARDSON & BOYNTON CO.

Factory Dover, N. J.

Executive Offices: 260 Fifth Ave., New York City

For Branch Offices See Page 367

Other Products:

Warm Air and Pipeless Heaters, see pages 367-69.
Round and Sectional Boilers, see pages 390-93.
Coal, Gas and Combination Ranges, see pages 430-33.

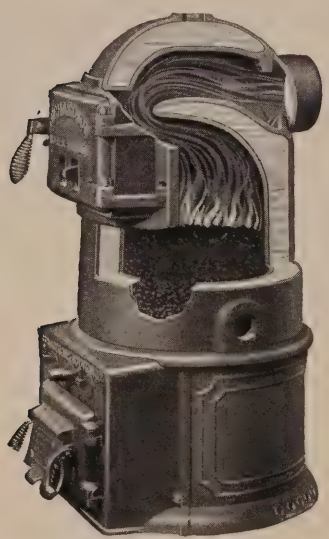
Richardson Galvoxide Process Guarantees Clean Hot Water:

In many sections of the country the chemical composition of the water makes it impossible to obtain clean hot water, free from rust or discoloration, except by using brass sections in tank and laundry heaters.

Richardson & Boynton Company five years ago perfected a new type of heater with a galvoxide water section, treated by a special process so that it is not affected by the chemical properties in the water in any way. Clean hot water is available at all times.

Thousands of successful installations during the past five years have so established the Richardson Galvoxide Heater as a solution for the clean water problem that it is guaranteed to keep the water free from rust or discoloration.

Builders, architects and plumbers everywhere have found the guaranteed Galvoxide Water Section so thoroughly satisfactory in every way that they unreservedly recommend it to their clients.



Nos. 110T-112T-114T



Nos. 170-200-300

Domestic Hot Water Supply and Tank Heaters, Fitted with Triangular Grates. Can be furnished with grates for pea coal. Furnished with cast iron or galvoxide water section.

Size	Capacity in Gallons of Water	Capacity in Sq. Ft. of Radiation	Dia. of Grates, Inches	Tappings, Flow and Return, Inches	Smoke Pipe	Height, Inches
110T	150	115	10	1¼	6	34
112T	250	200	12	2	6	36⅜
114T	350	280	14	2½	6	37⅞
170	475	380	17	2–2½	7	42
200	600	480	20	2–3	8	42⅞
230	800	600	23	2–3	9	46

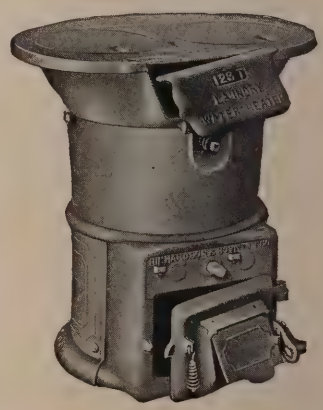
Hot Water Laundry Heaters
No. 4 Union Heater:



Height, 27½ inches.
Top, 21x14¼ inches.
Capacity, 50 gallons.
Smoke-pipe, 6 inches.

1-inch flow and return tappings. Fitted with high ash pit and "Perfect" revolving grate bars. Can be furnished with Cast Iron or Galvoxide Water Section. The No. 4 Heater has a course of fire brick under water section which prevents ashes and dead coal from coming in contact with heating surface, insuring maximum efficiency.

No. 123-T Heater:



Height, 23 inches.
Top, 24x16 inches.
Capacity, 80 gallons.
Grate, 10½ inches.
Smoke-pipe, 4½ inches.

1 inch flow and return tappings.

Fitted with high ash pit and "Perfect" revolving grate bars.

Can be furnished with Cast Iron or Galvoxide Water Section.

A larger size—No. 124-T has a capacity of 150 gallons and is 26 inches high.

No. 411 Heater:



This is primarily a soft coal heater, with a capacity of 100 gallons.

Radiation, 50 feet.
Height over all, 27 inches.
Grate, 10 inches.
Depth of fire, 10 inches.
Smoke Pipe, 5 inches.
Tappings, 1½ inches.
Floor space, 18 in. x 18 in.
Fire door, 6 in. x 4½ in.

For further details and literature, write to: **RICHARDSON & BOYNTON CO., NEW YORK CITY**

Gas Saving TACO Water Heaters

Made by

THERMAL APPLIANCE COMPANY

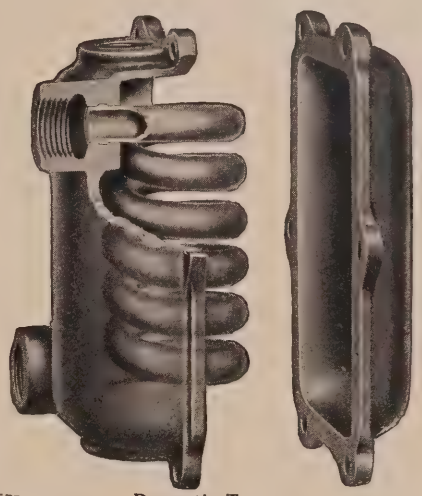
342 Madison Ave., New York City

Products

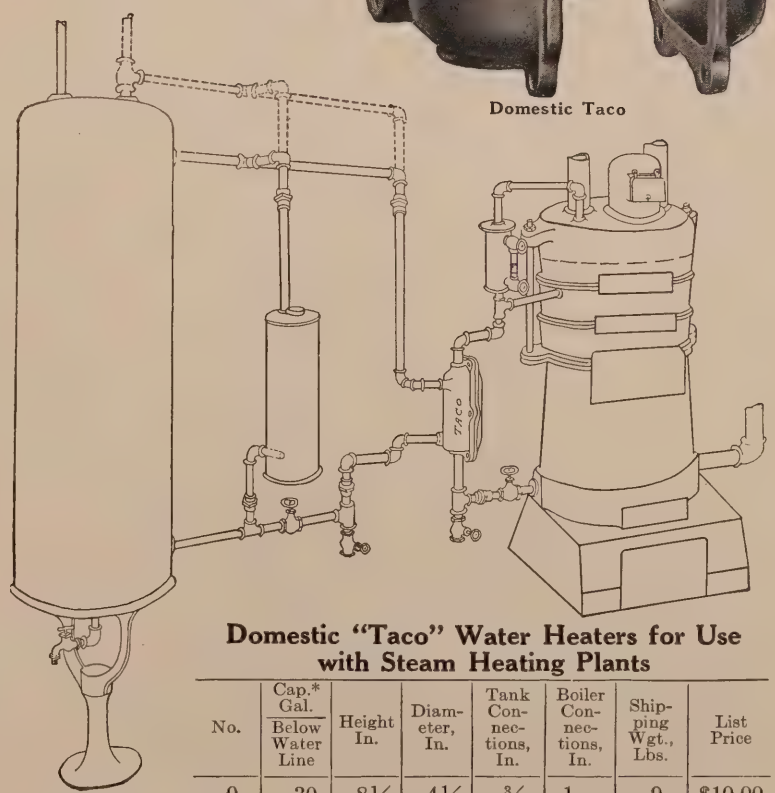
The products of this company consist of a line of Water Heaters ranging in capacity from 30 to 160 gallons. Two types are made, the Domestic and the Universal, both of which utilize the heat of the boiler that supplies hot water or steam heat to the house for heating, also the water required for kitchen, laundry and bath.

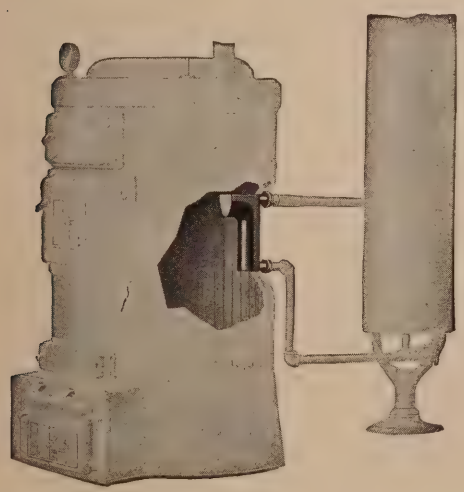
DOMESTIC "TACO" HEATER connected below water line of steam heating boiler insures abundant hot water for all domestic purposes throughout the heating season. Removable cover permits easy cleaning without breaking any pipe connections.

HOT WATER FROM THE HEATING BOILER



Domestic Taco





Domestic "Taco" Water Heaters for Use with Steam Heating Plants

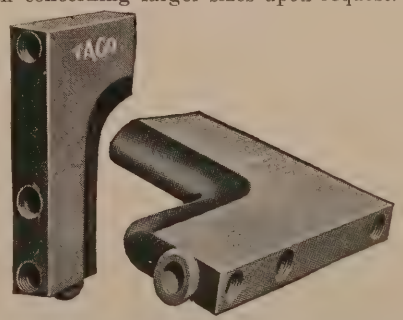
No.	Cap.* Gal. Below Water Line	Height In.	Diameter, In.	Tank Connections, In.	Boiler Connections, In.	Shipping Wgt., Lbs.	List Price
0	30	8¼	4½	¾	1	9	$10.00
30	30	9 11/16	5 5/16	¾	1	11	15.00
1	40-52	11 11/16	5 5/16	¾	1	14	20.00
2	80	13½	6 15/16	1	1¼	24	30.00
3	160	19 1/16	8 1/16	1¼	2	52	50.00

NOTE—Information concerning larger sizes upon request.

Universal "Taco" Water Heaters for Use with Hot Water or Hot Air Heating Plants

No.	Capacity Gals.	Height In.	Width In.	Shipping Wgt., Lbs.	List Price
6–9–30 Iron	30	10½	6	10	$ 8.00
6–9–60 Iron	60	10½	11½	17	14.00
6–9–30 Brass	30	10½	6	10	20.00
6–9–60 Brass	60	10½	11½	17	35.00

Universal Taco Heaters supply water for domestic use from the fire pot of the hot water heating boiler. They are better and more efficient than a pipe coil. Universal Taco Water Heaters are so designed as to set flush against the fire pot wall and leave no air space to cause the fire to burn out around the heater. They have no fins or projections to catch ashes or to clinker up. They do not interfere with efficient firing.



Universal Taco

For further details and literature, write to: **THERMAL APPLIANCE COMPANY,** 342 Madison Ave., New York City

Thrush System of Hot Water Heating

Made By

H. A. THRUSH & CO.

PERU, INDIANA

Providing Automatic Regulation and increased heating efficiency for any hot-water heating plant—old or new.

What Is It?

Thrush System of Hot Water Heating comprises added equipment to be placed on any hot water heating boiler to provide automatic control of dampers and to make the system a "closed system" under pressure.

Thrush equipment consists of the Thrush Automatic Damper Regulator. The Thrush Differential Pressure Relief, the Air Tight Pressure Tank, the Thrush Bell Cranks, Thermostat and Gauge. Figure I shows installation.

A "Closed System"

A closed or controlled hot water heating system operates under pressure and is sealed whereas the ordinary gravity hot water heating job has an expansion tank in the attic or up-stairs room and the only pressure on the system is the weight of the water from the highest radiator to the water level in the expansion tank. A closed system, on the other hand, operates under about ten pounds pressure and therefore circulation is speeded up, hotter radiators and increased heat radiation are assured. The pressure tank is placed in the basement close to the boiler where it cannot freeze and where overflow will not damage anything.

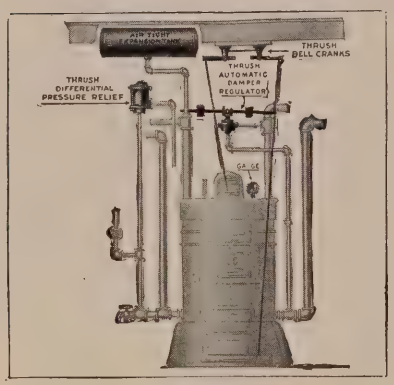


Fig. I

Safe Control

Thrush System is sealed against the air and no water can escape from the system when boiler is fired (and the water expands), except through the Thrush Differential Pressure Relief Valve. This valve does not operate until the pressure reaches the point at which it is set to operate. A safety factor of ten to one eliminates all possibility of broken boilers and keeps the water in the system harnessed and under positive control. See figure II.

Automatic Regulation of Dampers

The Thrush Regulator (see figure III) keeps fires under control at all times, thereby securing greatest fuel economy, uniform room temperatures and the maximum of personal comfort in the home or building. For maintaining different water temperatures only a simple adjustment of the weights on the lever is necessary. There are no electrical connections to get out of order, no winding of motor or clock. The Thrush method of piping makes it possible to place this Regulator in any position giving the maximum of lever efficiency for operating the dampers.

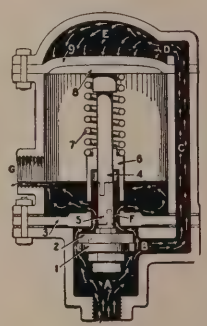


Fig. II

Thrush Differential Pressure Relief

Comfortably Heated Homes Easier to Sell!

The building contractor and home builder who installs a Thrush System of Hot Water Heating will find increased value immediate. Home owners are looking for efficient heating and they want to get away from constant attention to boilers. Thrush System provides that fuel economy, assurance of comfortable temperatures, and freedom from constant attention which they most desire. This appeals to both women and men—the Thrush equipt home is easy to sell because of this big feature.

Thrush System is not expensive. Owing to reduced sizes of piping required a Thrush Regulated plant containing 750 or more square feet of radiation can be furnished at the same cost as an ordinary unregulated gravity job.

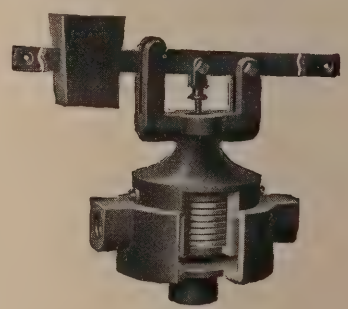


Fig. III
Thrush Regulator

Piping Plans and Specifications Free

To building contractors and architects and others interested we will gladly furnish piping plans and specifications carefully and completely worked out by our engineers without cost. Take advantage of this service and insist on Thrush Regulated Hot Water Heating jobs in the homes you build.

Write for illustrated Catalog and price list.

For further details and literature, write to: **H. A. THRUSH & CO., Peru, Indiana**

Oliver Oil Burners

OLIVER OIL BURNER CORPORATION

Room 206 Oliver Building

St. Louis, Mo.

Products

Oliver No. 30-A Oil Burner, LISTED AS STANDARD BY UNDERWRITERS' LABORATORIES, INC. Four sizes for homes of from three to fifteen rooms. Can be operated on either Manual or Thermostatic control. All Models burn distillate oil of 38-40 degrees Baume, commonly known as light furnace oil.

Also four sizes of the OLCO OIL HEATER, an Oil Burner and Heating Stove in one complete unit. Burns distillate oil as specified for Furnace Burners. Will heat floor area of from 400 to 1000 square feet. Equipped with Automatic Oil Shut Off Valve.

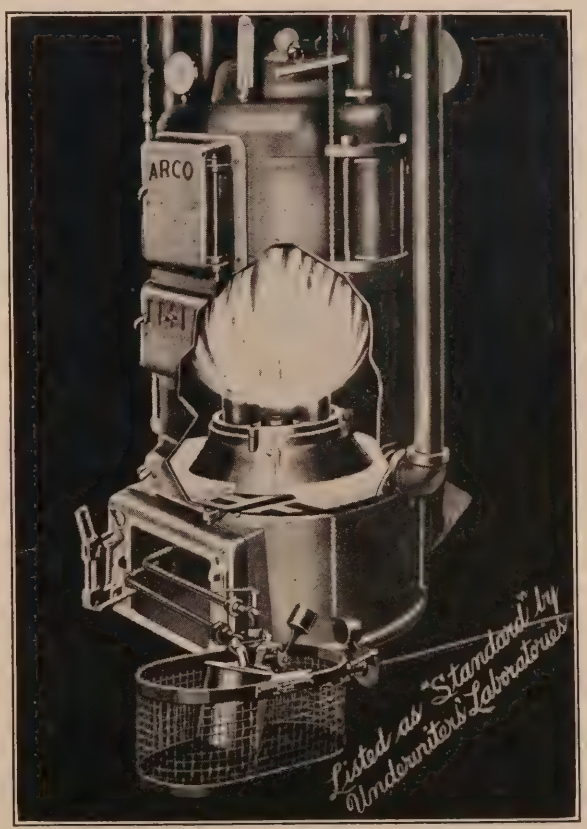
Installation

These burners can easily be installed in practically all types of heating plants; hot air furnaces, steam and hot water boilers. They prove very successful in both pipe and pipeless furnaces, because of their quiet operation. Burners simply rest on grates of furnace with no radical changes required in the furnace. Can be installed with tanks of from 50 to 250 gallon capacity in accordance with local fire ordinances.

NO. 30-A LISTED AS STANDARD BY UNDERWRITERS' LABORATORIES, INC.

Exhaustive tests by our engineering staff as well as outside engineers, whose interest in the burners is entirely neutral, have proved that these burners are as nearly perfect as modern laboratory devices and engineering skill can make them. Over fourteen years of experience are back of these burners and more than $100,000.00 have been spent in field and laboratory research work.

Actual tests with standard testing equipment, as used in all Thermal Research Laboratories, show an operating efficiency of 70% and greater. This means that the Oliver Burner is actually liberating, and delivering to the rooms heated, 70% or more of the heat contained in the oil. This shows the high operating efficiency which is obtained with an Oliver Oil Burner.





MODERATELY PRICED FOR THE AVERAGE HOME

Oliver Burners can be installed in any home for which they are suited without a price penalty. Under our special offer to Contractors, the total cost, including all equipment and labor, will average from one-half percent to one and one-half percent of the value of the home.

Complete specifications, showing installation, will be furnished on request. Our engineering department will be glad to co-operate, specifying the correct model for any installation and furnishing special plans where required. Some of our most successful distributors are Contractors and Builders. A few choice territories are still available. If interested, write for details of our liberal EXCLUSIVE CONTRACT and Sales Promotion Plans.

Guarantee

Oliver Burners are guaranteed to give heating satisfaction up to rated capacities. All parts found defective within one year, will be replaced without charge.

The Minneapolis Heat Regulator

New York City
Cleveland
Milwaukee
St. Louis

MADE BY

MINNEAPOLIS HEAT REGULATOR CO.

Executive Offices and Factory

2747-53 Fourth Ave. South, MINNEAPOLIS, MINN.

Philadelphia
Chicago
Boston
St. Paul

A SLIGHT additional expense in the initial cost of building a home often results in economy in maintenance. A well appointed home, built at a given cost always has a higher investment value than an ill-planned house built at an equal cost.

Heat Regulation in the Home

A very important part of a well planned home is the heating plant. The question of heating is often given little thought, yet it is entitled to the most consideration. Neither a warm air furnace or a hot water or steam boiler will be entirely satisfactory unless it can be properly regulated to distribute an even, healthful heat. Proper heat insures fuel economy, economy in repairs and upkeep, uniform temperature, comfort, convenience, health and safety.

One Product For Over 40 Years

Minneapolis Heat Regulators are the original automatic controlling devices. They have been manufactured and in use for over 40 years and may be applied to correctly regulate all types of heating plants, new or old, using coal, coke, oil, gas, electricity, or combinations of these, as fuel. They may be installed on steam, vacuum, or vapor heating systems, on hot water boilers or warm air furnaces.

Concentration on the science of heat regulation has resulted in the accumulation of valuable data as well as in the constant improvement of "Minneapolis" regulators and service. The Company's acquired knowledge of heat regulation is freely at the disposal of contractors and builders.

Operation

The Minneapolis Heat Regulator consists of an attractively designed thermostat placed conveniently on the wall of the living room and connected by a small concealed electric cable to a motor in the basement,—and a furnace or boiler controlling device mounted on the heating plant. The Motor, actuated by the room thermostat or the boiler control device, performs the work of operating drafts, dampers, or steam, oil or gas valves, of the heating plant.

Experience and research have proved that perfect regulation of hot water, steam or vapor boilers, or warm air furnaces requires more than automatic control by the room thermostat, which is actuated only by atmospheric temperature. Often the forcing of a fire to bring room temperature to a given point causes excessive heating of the boiler or furnace, due to the fact that water temperature or steam pressure in the boiler, or heat generated in the furnace, accumulates faster than radiators or registers can transmit it to warm the rooms. The problem of eliminating these periods of fuel waste and possible danger is solved by the use of the limiting boiler or furnace control device in connection with a "Minneapolis" room thermostat and the motor.

"Minneapolis" Room Thermostats

"Minneapolis" Room Thermostats are of three different types: first, without clock attachment; second, with one day clock; third, with eight day clock attachment. These various thermostats are illustrated and described below.

With thermostat control, the house will never be overheated or underheated. The thermostat never tires, never sleeps, never forgets, never loafs on the job, works 24 hours a day, starts up the fire on zero mornings—all this with never a care on the part of the home owner. The heat regulator is a valuable little servant, strictly attentive to business, always watchful over the comfort of the house. When the affairs of the day claim attention or during the sleeping hours, this attendant upon your convenience is always present and alert—a constant conserver of time during the day by eliminating the drudgery of operating heating plant drafts and dampers, and a zealous guardian of comfort by night. Whether it is a March blizzard or autumn frost, a spring thaw or an Arctic record-breaker on the outside, the thermostat sees to it that nothing harsher than a day in June breaks in upon the family circle.

Model 40 Thermostat

All "Minneapolis" thermostats are of the same basic construction. No matter which model of thermostat is used, it is certain to be accurate and all "Minneapolis" thermostat models work on the same unfailing, natural principle. The design of the thermostat is a marvel of simplicity and ingenuity.

Model 40 room thermostat is built with the same care and precision as the clock type instruments illustrated below and is designed for operation where the clock is not necessary or desired, as in school-houses, factories, churches, etc., where a certain degree of heat is to be maintained at all times.

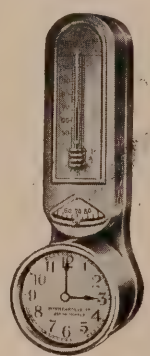
Model 47 One Day Thermostat



This themostat is furnished with a one-day clock, which, when wound at night, and the thermostat indicator lowered to the night temperature desired, will automatically raise the temperature to day time level at any given morning hour, by means of the alarm mechanism of the clock. This assures a cool dwelling during sleeping hours and warm rooms to dress in. This thermostat as well as the Model 40 previously described, is finished in sand-blast bronze, which blends nicely with almost any color scheme of room decoration.

Model 77 Eight Day Thermostat With Seven Jeweled Clock

This thermostat marks the latest development in automatic temperature controlling devices. This is the most automatic of the "Minneapolis" thermostats and has an 8-day clock attachment manufactured by the Minneapolis Heat Regulator Company. The clock used with this thermostat is equal, if not superior to any clock of its type manufactured here or abroad. The movement is jeweled, with seven rubies and sapphires, with genuine bi-metallic expansion balance. Every clock part is extra heavy, insuring rigidity to the movement and a durable time-piece with excellent time keeping qualities.



This high-grade clock—an integral part of the thermostat, will automatically lower house temperature to any desired night time level at the retiring hour, and again automatically raise the temperature at any specified hour in the morning, to the normal day degree. This automatic action is repeated daily, morning and night, for eight days with one winding. In keeping with the surrounding of the finest homes, the Model 77 thermostat is finished in a dull brushed silver.

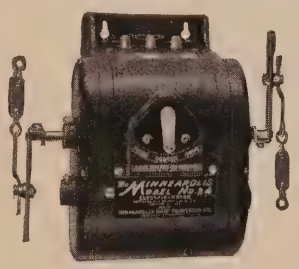
The Minneapolis Heat Regulator (Continued)

"Minneapolis" Motors

The three types of motors illustrated and described in the following paragraphs are all made with the utmost care and precision. Non-corroding brass gears are used and strong dust-proof outer casings fully protect each motor and keep it in exact alignment.

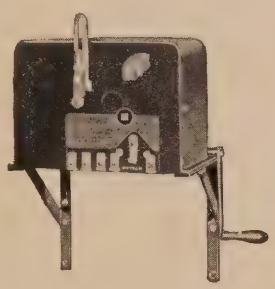
Electric Motor

This new motor is furnished for use with either alternating or direct current and is built on basic principles that have proven their reliability in previous models thru years of actual use and experience. The A. C. Motor is complete in one unit, including transformer, connects direct to the house lighting circuit and never requires winding. It is completely enclosed in a die-cast aluminum housing with sleeving at shaft openings to exclude dust and moisture. The lifting ability of this motor far exceeds any demands which drafts or valves would put upon it. The electric motor has been tested and approved by the National Board of Fire Underwriters and is particularly recommended for use with gas or oil fired heating systems, or with central station heating.



Spring Type Motor

The power for this motor is furnished by a heavy spring, which gives the motor ample power to handle the heaviest drafts or valves. One winding of the motor every week or ten days is all that is necessary, and the wind indicator shows when re-winding is necessary. This motor is provided with an automatic safety switch, so that if the motor is allowed to run down the heating plant will *always* be shut off on the motor's last operation. This feature is of extreme importance as it practically eliminates fire hazard.





Gravity Motor

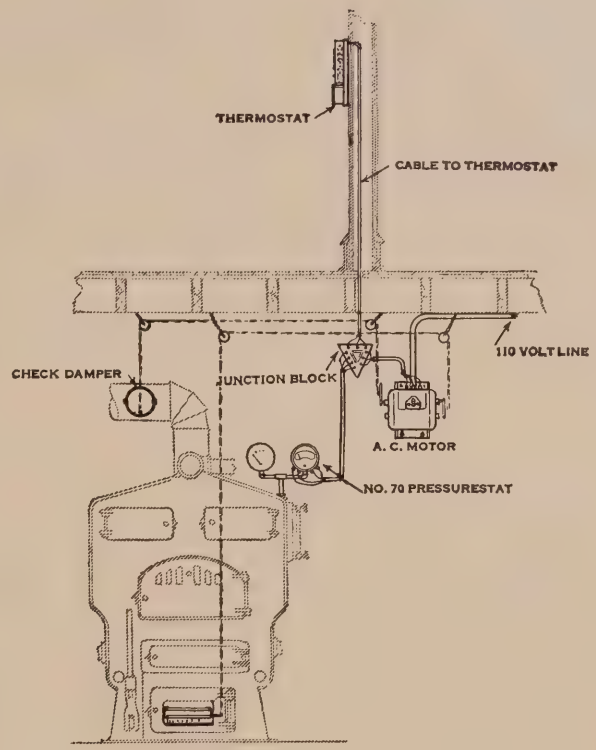
This type motor is designed for attachment to the basement ceiling and motive power is furnished by an iron weight sufficiently heavy to operate dampers and drafts of the average heating plant. The principle of operation is similar to that of the old-fashioned grandfather's clock and motor is wound by pulling up the weight once each day. This motor also has the "Minneapolis" safety switch feature.

Economy and Safety

The Minneapolis Heat Regulator saves, on the average, from 1/5 to 1/3 on fuel costs—on any type of fuel. Eliminating the added comfort, convenience, and even, healthful temperature which results, economy alone justifies the installation of a Minneapolis Heat Regulator. However, the presence or absence of comfort and convenience makes the difference between a home and a house.

Th regulator will not only pay for itself in fuel saving, but when paid for, will continue to produce dividends in fuel saving for many years.

The safety feature of this installation should also be considered. There is no need to worry about drafts or dampers when away from home. The furnace or boiler cannot become overheated,—the room will always be temperate—never torrid or frigid, and there's no danger of drafts being kept opened or closed until the fire's out. The installation of a Minneapolis Heat Regulator insures effective, dependable and proper temperature control.



Installation Diagram

This diagram illustrates a typical "Minneapolis" installation, showing the convenient means of controlling the heating system, both by room temperature, and boiler pressure or temperature or furnace temperature. In this case the double check on a steam boiler is shown. The thermostat controls room temperature. The clock automatically lowers temperature at night and raises it in the morning. The motor, actuated by the thermostat operates heating plant drafts and dampers and the pressurestat limits the amount of heat to be generated.

Boiler Control Devices

These devices, the hydrostat for control of hot water boilers or warm air furnaces, and the pressurestat for controlling steam, vapor or vacuum systems, are used in connection with the room thermostat and motor to effect a double check on the heating plant, and may also be used alone to keep hot water supply systems, boilers or furnaces at a constant temperature.

Model 65 Hydrostat

The hydrostat principle of operation is the same as that of the room thermostat. These instruments operate in accordance with a simple, natural, law and have no intricate mechanism that is easily put out of adjustment. The Model 65 Hydrostat when used on hot water heating systems, is mounted on the boiler. It may also be used in control of warm air heating plants and in such case is mounted on one of the main ducts near the furnace casing. In either case, the hydrostat will co-ordinate perfectly with the room thermostat in causing the motor to operate drafts, dampers or valves.

Model 70 Pressurestat

The pressurestat gives perfect control at all times when used in dual control with the room thermostat, because through a patented arrangement of contacts and wiring on the pressurestat, the room thermostat is at all times in control to limit the amount of heat. The pressurestat is used only on steam, vapor or vacuum heating systems, and is a very reliable, sturdy instrument.

For further details and literature, write to: **MINNEAPOLIS HEAT REGULATOR CO.** 2747-53 Fourth Ave. South Minneapolis, Minn.

The American Blower Reversible Ventura Home Ventilating Fan

Made by

AMERICAN BLOWER CO.

DETROIT, MICH

The Product:

The Ventura Fan is a practically noiseless, highly efficient ventilating unit that can be used in any part of the home. It can be used either as a built-in unit with the Permanent Wall Fixture or installed in a window with supporting adjustable frame. It will either whisk out the stale air, odors and fumes or bring in the pure, fresh atmosphere of outdoors. It requires no attention whatsoever aside from an occasional oiling now and then, and it operates from a regular electric light socket, using no more power than an ordinary 40-watt electric lamp.

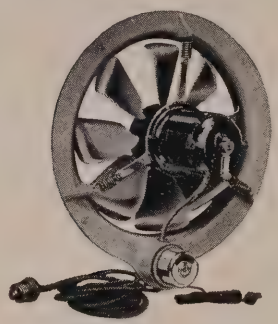
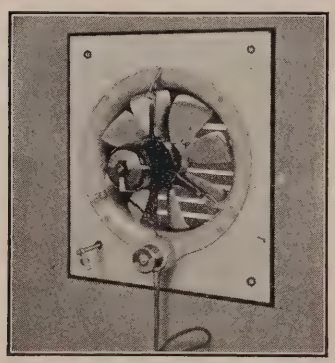
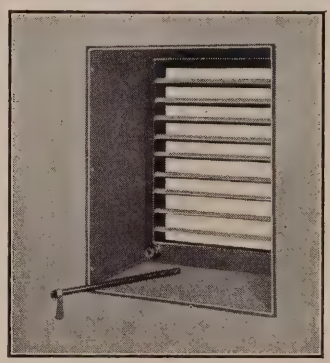


Photo Shows the Reversible Ventura Ventilating Fan.

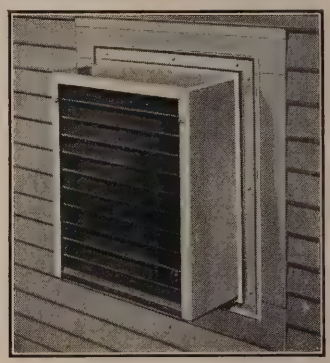
Built-in Ventilation With the New Permanent Wall Fixture



Interior Showing Fan in Kitchen.



Interior Showing Sleeve or Box in Position. Box Requires Opening 14⅜" Wide, 17¾" High.

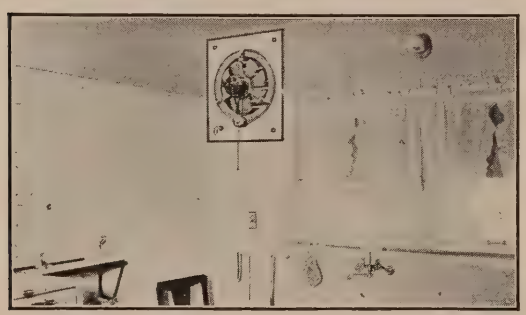


Exterior View of Permanent Wall Fixture With Louvers Open.

The Permanent Wall Fixture adds materially to the looks of the home, does not shut out any light or otherwise occupy window space. It adds many times its cost to the selling price of the home. It enables the kitchen to be placed in any position regardless of the layout of the home because it eliminates the unpleasant odors of cooking as fast as they originate. The new Permanent Wall Fixture, if installed when the home is under construction, costs no more to install than an ordinary window. It is the last word in comfort and convenience and can be used to advantage in any room in the house.

For Clean, Cool and Fresh Kitchens and New Homes That Stay New Longer

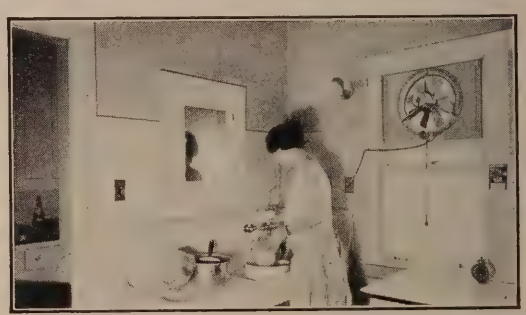
AS A BUILT-IN UNIT.



The Permanent Wall Fixture Adds the Finishing Touch to the Modern Home.

Thousands of Ventura Ventilating fans are already in use in the kitchens of America whisking out the stale air, fumes and odors and bringing in the pure fresh atmosphere of outdoors.

AS A TEMPORARY UNIT.



The supporting frame used with this installation comes in two sizes—adjustable to fit windows 24" to 34" wide, and 32" to 50" wide.

Thousands of owners are realizing the benefits of cool and fresh kitchens plus this financial advantage—that their homes are kept new-looking long after homes not so equipped are showing the costly effects of dirt and grease from the kitchen.

For further details and literature, write to: **AMERICAN BLOWER CO., Detroit, Mich.**

"BUFFALO BREEZO"

FOR HOME VENTILATION

Manufactured by

BUFFALO FORGE COMPANY

443 Broadway, Buffalo, N. Y.

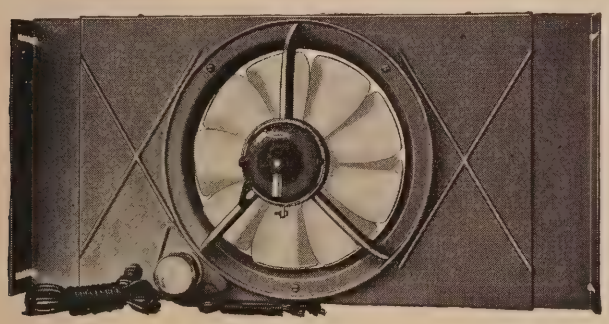
Need for Home Ventilation

Ventilation for the home kitchen has been very much neglected in the past, and the interest which is now being shown is due to the success of the "Buffalo Breezo" for home ventilation.

When you place a "Breezo" in a kitchen window you are installing "health insurance." This quiet little fan takes kitchen odors,—grease, smoke and "headachy" fumes out of the kitchen, and draws the stale air out of the entire house.

Think what this means to the one who does the cooking! Imagine a house always free from annoying and embarrassing odors!

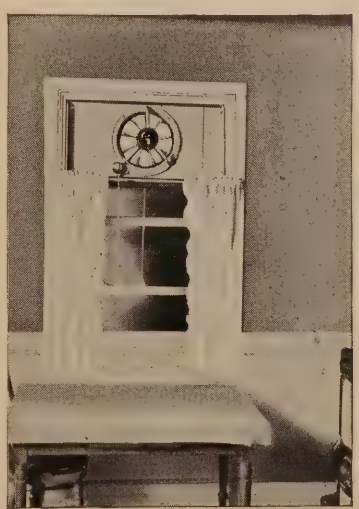
When cool air is wanted in the kitchen, a pull at the cord attached to the Breezo switch reverses the fan and draws the fresh out-door air into the house.



This shows the fan, switch and adjustable panel. Fan can also be furnished without panel and without switch for wall installation.

Simple to Install—Costs Little to Operate

When the fan is equipped with the pull switch, the switch is always attached to the fan completely wired up ready for use. If the adjustable panel is furnished, it will be found in a separate crate, equipped with necessary bolts for attaching same to the fan and ring. The adjustable end pieces for the panel are enclosed in the box with the fan proper. These should be put into the grooves on the panel and after adjusted to the proper length to correspond to the width of the window should be clamped down by tightening up the four brass screws in the panel. With each panel is furnished two brass templates. One should be placed on each side of the window on the strip as high up as they will go, and the four special screws should be used for holding the template in place. The screws are usually located back about 2 to 2½" from the window sash and when the screws are driven home they are exactly the right distance apart to allow the panel and fan to be slipped in position through the notched slot in the panel. The panel should be set in the notches which will just permit the upper window to be raised and lowered without striking the fan.



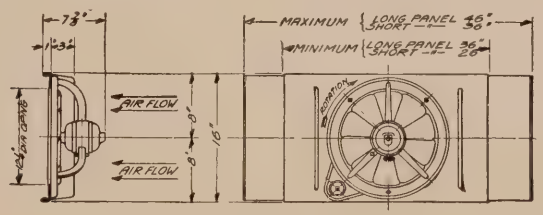
Two lengths of chain with eyelets are furnished. If the upper window consists of one large pane of glass, these chains should be used to enable the window to be readily raised and lowered. The two eyelets which are attached to the chain should be screwed in to the window sash as near the glass as possible, and about 3" from the top. The other two eyelets should be screwed in 16" lower down. The chain should then be slipped through the two lower eyelets and the eyelets closed. This permits you to readily raise and lower the window. If, however, the window has two or more panes, the chains are not required, as the cross strips readily permit raising and lowering of the window.

Well Made

The BREEZO fan has 20% MORE CAPACITY than other fans of the same size and power consumption. The improved, modern multiblade wheel delivers the air directly forward and away from the side of the house.

Light, strong all-steel construction; large bronzebushed bearings; a motor large enough not to require artificial ventilation, totally enclosed and lubricated by large bearings which require re-oiling only once every 1,000 hours; this fan is truly the greatest VALUE obtainable!

The adjustable steel panel fits the kitchen windows snugly. Fan may be left in place permanently or taken down if desired in a jiffy. Whether in place or not, the fan does not interfere with opening and closing of the window.



Specifications and Prices

The panel dimensions which are shown above are known as the short and the long panel. The short panel is adjustable for all windows from 26" to 36" in width measuring from one window strip to the other, and the long panel is suitable for any window measuring 36" to 46" between the strips. In addition to the two standard panels we also make one known as the special, which is used for any window between 22" and 26" in width. Price of all panels is the same. Be sure to specify which is desired. In addition always state the characteristics of the electric current available. The motors are carried in stock for 110 volts direct current, 60 cycle, and 25 cycle single phase alternating current. The following are the list prices of the 12" BUFFALO "BREEZO" with and without panels and reversing switches.

Arrangement	List Price	Shipping Wgt.
Complete with Panel and Switch	$66.00	35 lbs.
With Switch without Panel	62.00	28 lbs.
Without Switch or Panel	58.00	25 lbs.

The standard 12" BUFFALO "BREEZO" for home ventilation is equipped with a 750 R.P.M. motor, which is reversible, and it is very quiet in operation. If the fan is to be installed in some place other than the home, where a slight humming noise is not objectionable, a higher speed motor, running at about 1150 R.P.M., can be furnished at the same price. The motor is built on the same frame, but it is not reversible. It can, however, be furnished with the adjustable panel and with a start and stop switch, the only difference is that the higher speed motor does not have the reversible feature.

We also make:

Builders can profitably install the Buffalo Coal Burner in houses they have for sale, as with this fan they can guarantee to reduce coal bills from $40 to $70 per year, in addition to heating the house more quickly and maintaining a more even temperature.

This is possible because the Buffalo Coal Burner makes all furnaces suitable for burning Buckwheat coal, which is from $5.00 to $7.00 per ton less than other hard coal.

Write to us now for full particulars about this fan.



For further details and literature, write to: **BUFFALO FORGE COMPANY** **443 Broadway Buffalo, N. Y.**

E-Z RADIATOR HANGERS

Manufactured By

HEALY-RUFF CO.

779 Hampden Avenue, St. Paul, Minnesota

Installed by Heating Contractors throughout the United States and Canada

E Z RADIATOR HANGER



The Old Way



The Easy Way

Product

E-Z ONE BOLT RADIATOR HANGER OR BRACKET, both styles adapted for hanging all makes and sizes of radiators, including Corto and Aero, on any wall.

Advantages

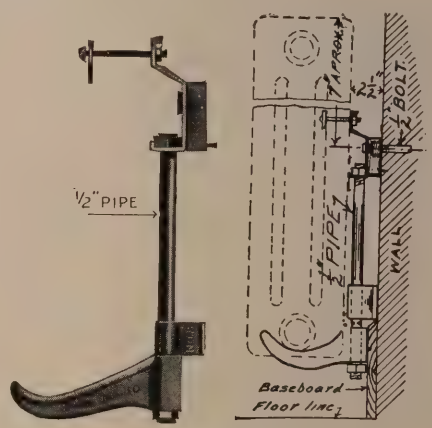
The wall is the logical place for radiation. When a radiator is hung on the wall it offers no obstruction when cleaning floors, carpets or rugs. No heated legs to soften floor varnish or warp the flooring. Appearance, convenience, floor cleaning, ease and economy and decreased installation cost all result from the use of E-Z Radiator Hangers.

These hangers are adapted to ANY type of construction, whether concrete, brick, hollow tile, gypsum block or frame wall.

Each hanger requires but one anchor bolt which may be set during construction.

No accurate measurements needed, since hangers can be adjusted both vertically and horizontally. Radiators can be hung, all connections made, system tested and bronzed before floors are laid, thus effecting considerable saving in installation cost, and preventing any possible marring of floors.

E-Z Radiator Hangers are designed for all wall and column radiation and are self-adjusting to expansion. Temperature control valves can be used. Entire hanger invisible, including upper support washer.



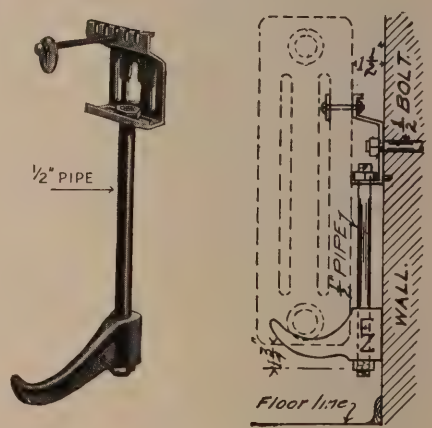
Style "H"

Styles

Style "H" places Radiator 2½" from wall and provides for baseboard adjustment.

Style "R" places Radiator 1½" from wall, but is not adjustable for baseboard. Style "H" is the most desirable for residential work.

Both styles are made for wall and all makes of Column Radiator including Corto and Aero. All parts made of pressed steel except bottom hook support, which is cast iron. All column radiation is held in at the top with an invisible washer.



Style "R"

Typical Specifications

Where Baseboards Are Used—All radiation, unless otherwise noted, shall be supported on wall by means of E-Z Radiator Hangers, Style "H" or equal, and approved in writing by the architect; arranged to support the radiator 2½ in. from the wall and with baseboard adjustment.

Where Baseboard Adjustment Is Not Desired—All radiation, unless otherwise noted, shall be supported on wall by means of E-Z Radiator Hangers, Style "R" or equal, and approved in writing by the architect, arranged to support the radiator 1½ in. from the wall.

For further details and literature, write to: **HEALY-RUFF COMPANY** 779 Hampden Avenue St. Paul, Minn.

CLARK GAS PRODUCER

Made By

AMERICAN HEATING & LIGHTING CO.

MORENCI, MICHIGAN

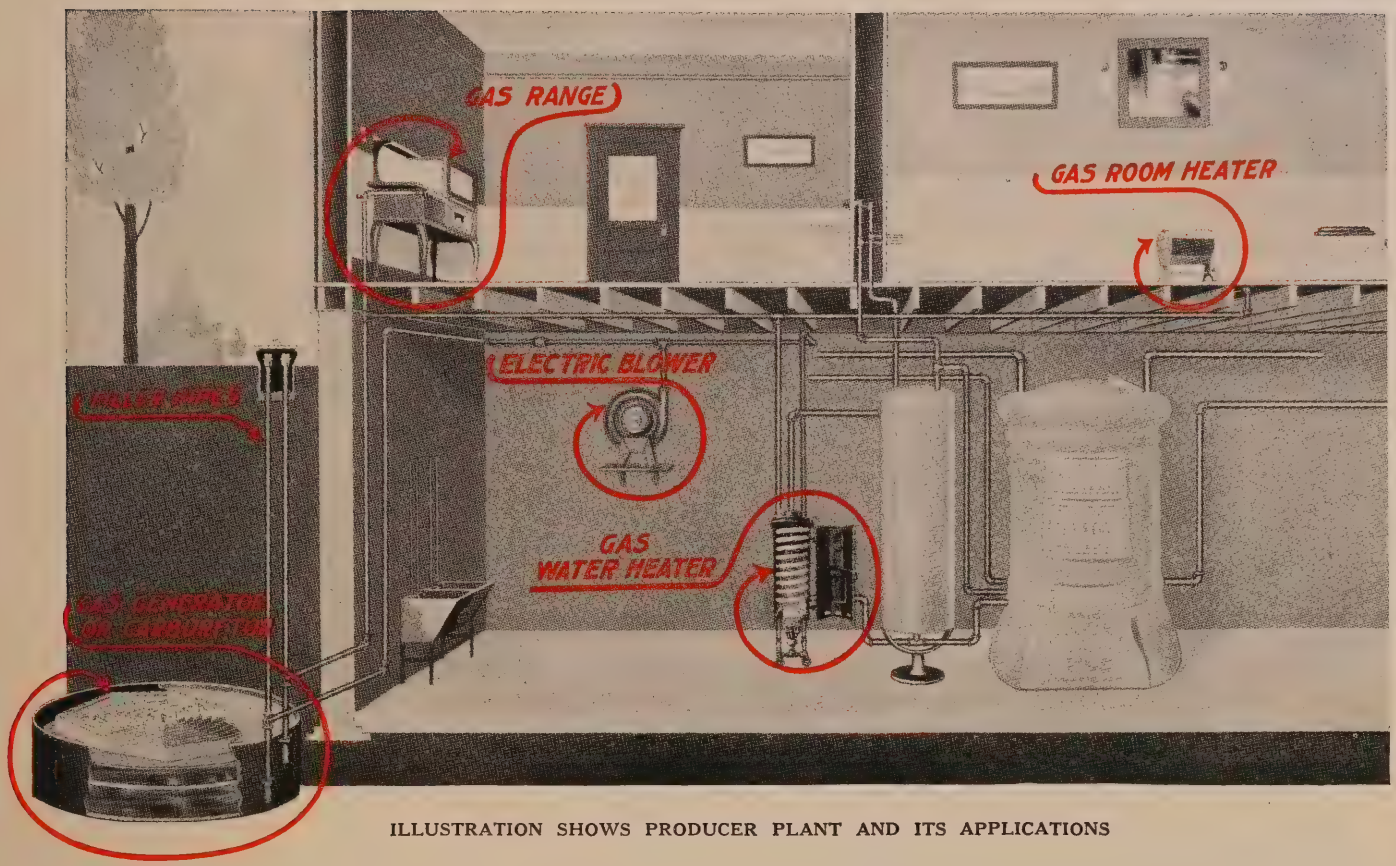


ILLUSTRATION SHOWS PRODUCER PLANT AND ITS APPLICATIONS

Products

This company manufactures the Clark Gas Producer—a complete plant for furnishing the gas supply for cooking and room heating purposes (when the regular heating plant is not being used) in suburban and other homes where no city gas supply is available. Also make the Clark High Speed Water Heater described on page 416.

Advantages

A Clark installation provides the home with an abundant supply of the finest gas that can be produced for furnishing fuel to the gas range, hot water heater, laundry stove, Pilot-lite for oil burning furnace, laundry mangle and Humphrey Radiant-fire for room heating in spring and fall. It is the only Gas Producer guaranteed to operate the Humphrey Radiant-fire.

Safe, Clean, Rapid, Economical

The Clark Gas Producer is buried in the ground outside of building. Filler pipes leading to the surface offer a convenient method of furnishing the gasoline supply as needed.

Quick evaporation of gasoline from this submerged storage tank or carburetor furnishes an adequate supply of gas under all conditions.

There are no explosion chambers and no high pressure air feed. Automatic mixers so often featured in gas installations and which often do not operate properly, are not used in Clark Gas Producers. Clark Gas is developed in a more efficient and more natural way. There are no objectionable generating noises. Superheating of gasoline —a common practice in producing gas, and one that causes carbon to accumulate—is not used in the Clark process.

The Clark Gas Producer is purely automatic, no valves of any kind on it. Oil it once every ten years. Light it and use it just as you would city gas. It is so safe a child can handle it without the slightest danger of any kind.

Two Types of Air Blowers Used

Where electricity is not available, a weight device is used to operate the air blower in place of the electric air blower. In other respects both installations are identical and equally efficient.

Construction

Clark Gas Producers are built to last a lifetime.

The combination carburetor and storage tank, buried in the ground outside is made of heavy Armco Galvanized Iron—with a world-wide reputation for its rust-resisting and lasting qualities—regular boiler construction—closely riveted and securely soldered inside and out. Outside castings are made of solid brass.

Every carburetor is thoroughly inspected and air tested. Then treated with three coats of special mineral paint to resist rust.

A Permanent Investment

A Clark Gas Producer means no great expense for installing and over a period of years satisfactory service will prove a great economy. There is nothing exposed to the weather and nothing to wear out.

Many carburetors buried in the ground thirty years ago are giving satisfactory service today, proving conclusively the durability of Clark construction and materials.

What Are Your Requirements

Write us just what your requirements are and complete information will be promptly furnished without any obligation.

For further details and literature, write to: **AMERICAN HEATING & LIGHTING CO., Morenci, Michigan**

GAS SERVICE AND EQUIPMENT

Recommended by
ARCHITECTS' AND BUILDERS' SERVICE COMMITTEE
AMERICAN GAS ASSOCIATION
342 Madison Avenue
New York

The Service of Gas

Gas is the cleanest, most reliable and most convenient household fuel for cooking, water heating and room heating as well as for other domestic uses. In nearly every case it is also the most economical fuel for these purposes. Among its chief advantages over other fuels are: freedom from smoke and soot, constant supply ready for any demand, simple control and ease of heat regulation, efficiency per dollar cost, and no investment in fuel required previous to use.

Economy in Gas Service

Gas should never be wasted, but neither should the cost of gas for domestic use be reckoned solely by the monthly bill. Real economy in home planning and budgetting for household-management should be reckoned along the lines of the needs and requirements of the household, both present and future. Check off the items chargeable to other fuels, and credit to gas service,—the satisfaction of a constant supply of fuel that requires no money in advance, no storage space, no labor, no dirt dust or ashes. A service that carries the assurance of entire freedom from costly annoyance. In short, efficiency, which is after all, only another word for economy. In figuring building costs, do not limit on necessary gas piping, flues and appliances. The time is not far distant when gas will be the universal fuel for all household heating processes.

Original Installation

In designing and building a home, builders (in an effort to keep down the initial cost) often provide the very minimum gas service and appliances—sometimes only a range, seldom more than a range and water heater. Even in selecting the types of ranges and heaters, the low price factor has been used as a guide. This effort to maintain a low initial cost of construction is a penny-wide-pound-foolish policy as it penalizes the housekeeper by depriving her of economical and labor saving gas appliances which she needs and desires or else makes their later installation cost more than necessary. On the other hand, the installation of a modern cabinet range, good water heater, space heaters and other efficient devices adds greatly to the value—and salability—of the house.

Providing Adequate Piping and Flues

Each year sees an increase in gas consumption per home, and that this rate of increase is growing faster every year, is definite evidence that gas will eventually replace other fuels in the home, and undoubtedly this will include house heating as well as cooking, water heating and other more usual domestic uses of gas.

As home builders and homekeepers come more and more to depend on gas service they will require more and better gas appliances. The wise builder will therefore look to the future by providing in advance for the service and appliances which even in a few short years will be introduced into the homes. The two essential items under this head are proper piping and adequate ventilation. With these suitably provided, it will not require ripping up walls or floors to install the necessary piping for additional appliances.

Cost of Piping

The cost of piping installed at time of erection is relatively small, compared with the total cost of the building and the increased value of the premises so equipped. This cost varies in different localities, but is approximately 1 per cent of the total cost of the building; this figure covers the most elaborate piping layout required to cover every normal situation. If, however, the demands of the tenant or purchaser require pipe installation after the building is completed the cost will be greatly increased. In addition, the installation is liable to be unsightly, and the necessary work a source of annoyance to the occupant of the building.

Preventing Service Troubles

Builders should be sure the piping not only complies with local building requirements but is of adequate size to ensure an ample supply of gas for all purposes.

Gas Company records indicate that many consumers experience service trouble due solely to *piping which is too small or which has been improperly installed.* The following general principles and practices are offered by the American Gas Association as a help to architects, contractors, plumbers and home builders so that by cooperation in the interests of better gas service, house owners may get the utmost value, comfort and convenience from this part of their home equipment.

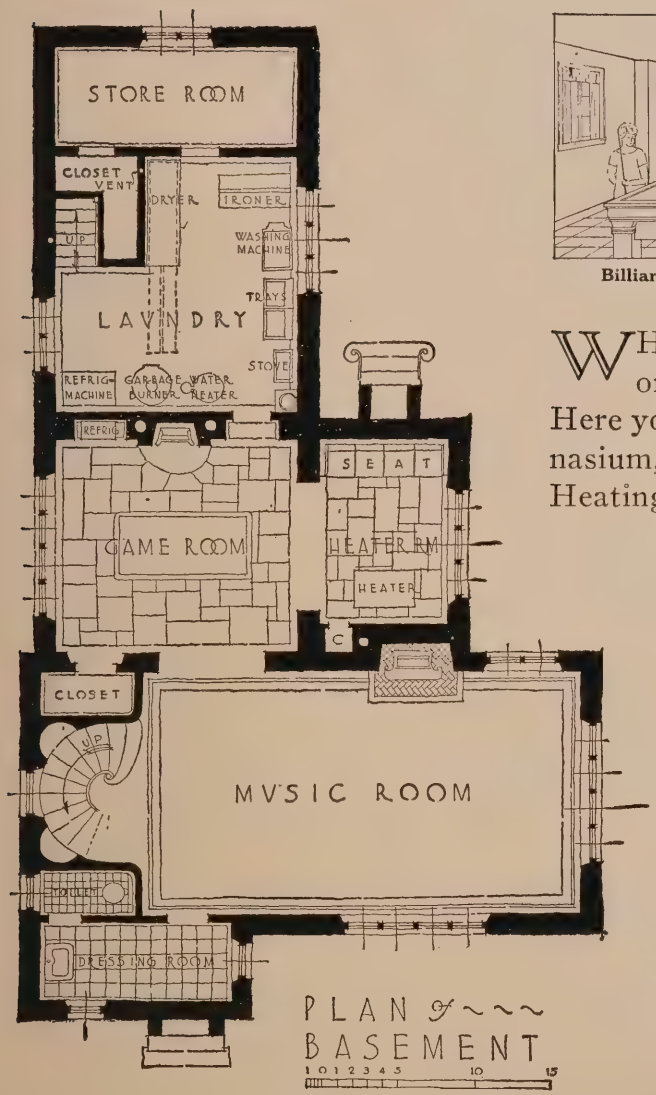
General Principles

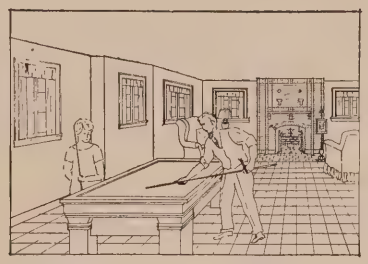
As local conditions govern, to a great extent, the practice and installation of gas piping, it is requested, that before you let your contract for this important part of your building, your local Gas Company be consulted.

1. The piping shall be constructed so as to be durable, substantial and gas tight, and shall be of ample size for the purposes intended.
2. Piping shall be installed with the best materials and workmanship.
3. Pipe and fittings shall be carefully examined before using, and defective pieces rejected.
4. Piping should not be laid under tile, parquet, or mosaic floors, where it is at all possible to avoid it.
5. Piping should not be run to bottom of beams that are to be covered with lath and plaster, but should be run along top of beams or joist where it is possible, so that it will be accessible by raising the floor boards, which, when covering such piping, should be fastened with brass screws.
6. Gas burning appliances shall be adequately supported and installed in accordance with the rules and regulations of the local gas company.
7. Automatically controlled large volume appliances with pilot ignition should be flue connected.
8. No device or attachment shall be installed on any appliance that will in any way impair the combustions of the gas.
9. All gas appliances shall, wherever practical, be connected solid with iron connections. Plain rubber hose shall in no case, be permitted. Flexible hose, properly designed and approved by the proper authorities may, in certain cases, be permitted; but where so used, a stop cock should be placed near the supply pipe. Such hose conform to A. G. A. Specifications.
10. Water Heaters should not be installed in bathrooms without flue connections.

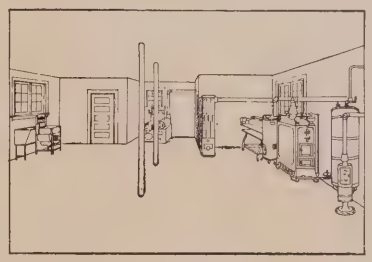
Further Information Available

The Architects' and Builders' Service Committee of the American Gas Association will be glad to furnish specific answers to questions and furnish design and installation data upon request and without charge. Your local gas company will also assist you, without obligation or cost to you, in proper provision for gas service in the houses you are planning or building.



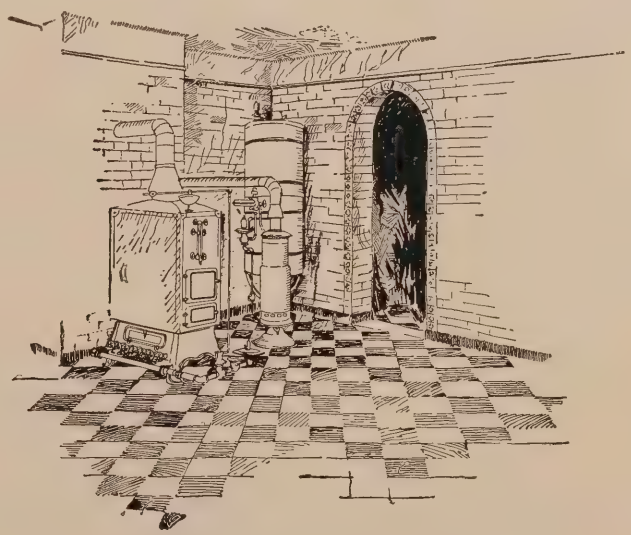


Billiards in the Basement



The Laundry

WHEN you heat with gas the basement becomes one of the most attractive parts of your home. Here you can have a Music Room, Billiard Room, Gymnasium, Play Room, or, what you please—as well as Heating Plant, Laundry, Stove Room, etc.



The Heating Plant and Hot Water Storage

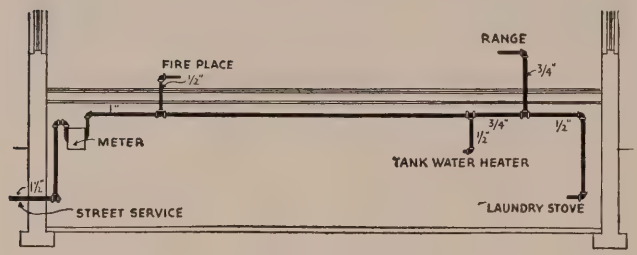


PERSPECTIVE of MUSIC ROOM

For further details and literature, write to: **AMERICAN GAS ASSOCIATION** 342 Madison Ave, NEW YORK

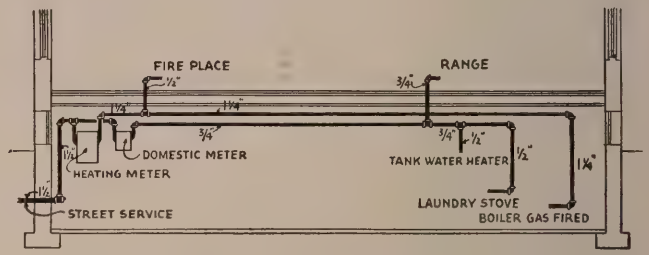
American Gas Association (Continued)

STUDY THESE GAS PIPE PLANS. You may find in them suggestions that you can profit by. Building Contractors are cordially invited to consult the American Gas Association on any problem involving the use of gas in the home. We maintain a corps of experts for the purpose of rendering free advice to Building Contractors. Send blue-print or rough sketch when writing.



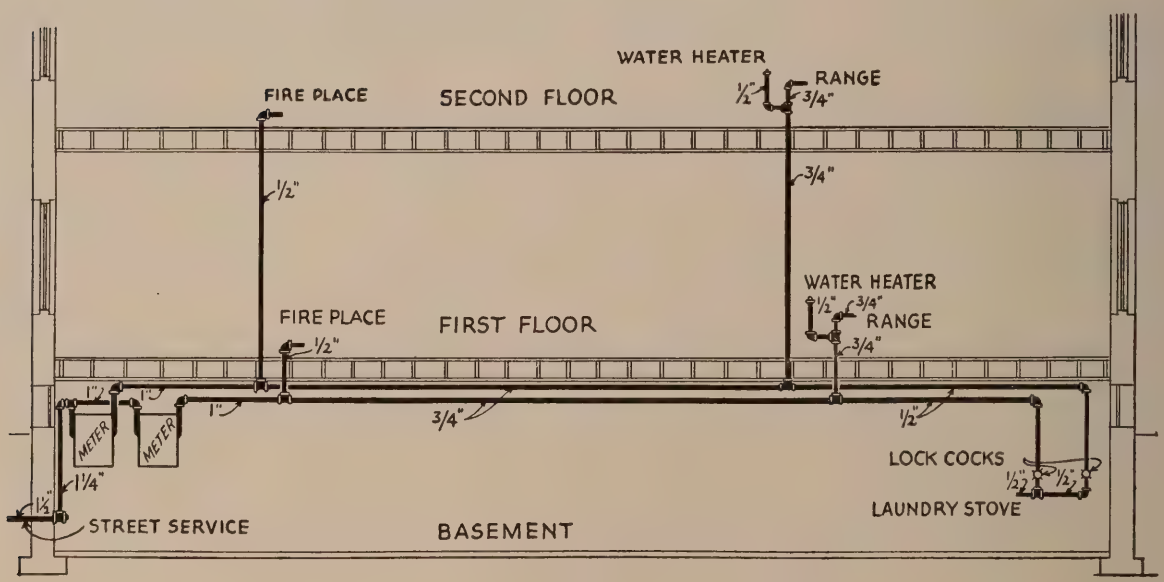
No. 1

A SIMPLE PIPING PLAN FOR A ONE FAMILY HOME, SHOWING (No. 1) OPENING IN FIREPLACE, (No. 2) RANGE, (No. 3) TANK WATER HEATER, (No. 4) LAUNDRY STOVE.



No. 2

A PIPING PLAN FOR A HOME, SHOWING IN ADDITION TO THE DOMESTIC EQUIPMENT, A SEPARATE METER AND FUEL RUN FOR A GAS FIRED CENTRAL HEATING PLANT. NOTE. FIREPLACE OPENING TAKEN OFF OF THE HEATING LINE.



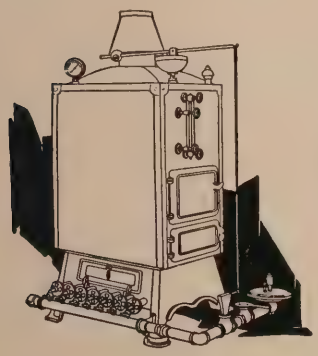
No. 3

A TWO FAMILY HOME, SHOWING FIREPLACE CONNECTION, ALSO RANGE AND TANK WATER HEATER CONNECTION IN THE KITCHEN OF EACH FLAT

For further details and literature, write to: **AMERICAN GAS ASSOCIATION** 342 Madison Ave. NEW YORK

American Gas Association (Continued)

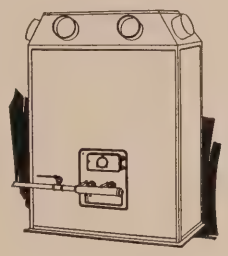
CONSIDER ALL OF THESE GAS APPLIANCES when planning a home and provide convenient connections for them in your gas piping so that those not installed when the house is built can be installed later on, if desired, without altering the original piping. A little foresight when the house is being built will save many dollars of expense later on.



Gas Fired Boiler for Steam, Vapor or Hot Water Heating

No fuel bins needed when you use gas for heating—no coal—no ashes. A clean basement that can be used as a playroom, billiard room, or what you please. Temperature regulator turns gas on and off automatically—no dampers to bother with. These boilers can be had in any size for residential use.

Space required for medium sized gas-fired boiler, 2 feet 6 inches long 4 feet wide; 45 inches high. A separate flue in the chimney should be provided for these heating boilers.



Gas Fired Furnace for Warm Air Heating

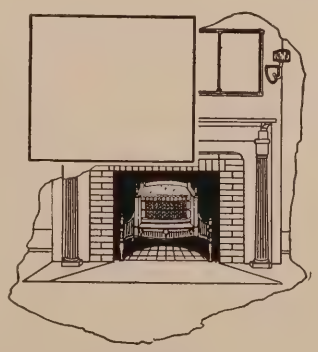
Like all gas appliances this operates on either natural or artifical gas. Gas heating costs less than you imagine—consult your local gas company. Automatic regulation keeps temperature uniform.

Space required for medium sized furnace, 48 inches long; 48 inches wide; 66 inches high. A separate flue in the chimney should be provided.

Radiant Fireplace Heater

Used for auxiliary heating it eliminates necessity of starting furnace driving early fall and late spring. Provides instant heat for early morning and late evening use. Made in a variety of designs to harmonize with interior decorations.

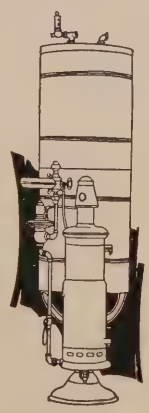
Requires fire place opening 24 to 36 inches wide; 12 inches deep; 28 inches high. Provide fireplace with suitable vent.

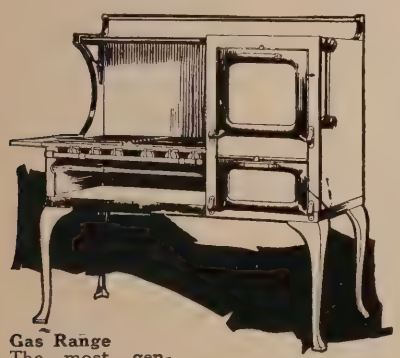


Automatic Storage Gas Water Heater

Made in many styles and sizes to meet all requirements of hot water supply for the home. Thermostatic control insures ample supply of hot water at the temperature desired. Gas supply to burners automatically shuts off when water is heated. Thorough insulation of tank reduces heat loss to minimum.

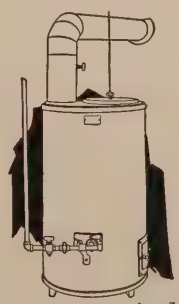
Space required for type illustrated 28½ inches by 28½ inches; 68¾ inches high. Made in larger and smaller sizes. Provide suitable chimney connection.





Gas Range
The most generally used gas appliance in the home.

IF IT IS DONE WITH HEAT YOU CAN DO IT BETTER WITH GAS.



Gas Fired Garbage Burner

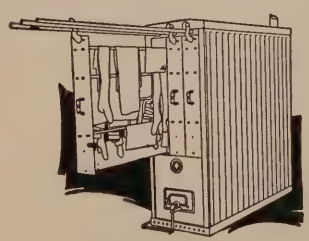
The destruction of garbage can now be accomplished by the use of a gas-fired appliance.

Space required, 2 feet, 6 inches square; 44 inches high. Can be installed in either kitchen or basement. Provide suitable chimney connection.

Gas Fired Laundry Dryer

Better and quicker than outdoor drying. No delay on account of rainy days.

When closed, 6 feet 11 inches long; space required when open, 12 feet 8 inches; width, 2 feet 2 inches; height 6 feet 6 inches. Flue connections should be provided.

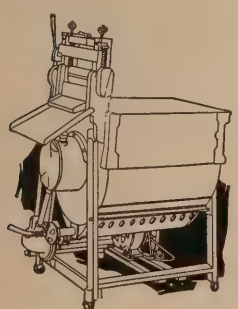




Gas Fired Laundry Stove

Illustration shows Laundry Stove of angle iron construction. Made in many other forms and sizes. Two burners, or three. Every laundry needs one.

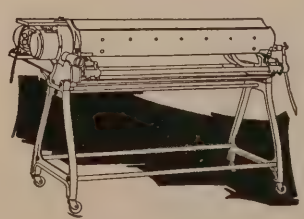
Space required, 26½ inches wide; 16½ inches deep.



Gas Fired Washing Machine

Enables you to boil your clothes while they are being washed. Keeps water hot. Many washing machine manufacturers now equip their machines with this added convenience.

Space required, 38 by 25 inches. Convenient gas outlet should be provided.



Gas Fired Ironing Machine

Much more rapid than hand ironing and one can work sitting down. Made in various styles and sizes.

Space required, for style illustrated, 56 inches wide; 26 inches deep. Convenient gas outlet should be provided.

For further details and literature, write to: **AMERICAN GAS ASSOCIATION** 342 Madison Ave. NEW YORK

BARBER Patented GAS BURNERS

For Residential Heating in Natural Gas Districts

Manufactured by

The CLEVELAND GAS BURNER & APPLIANCE CO.

Burner Specialists

3702-04 Superior Avenue, Cleveland, Ohio

Product

Barber Patented Gas Burners of the types listed on this page, are made in a variety of styles and capacities principally for residential heating, in furnaces, steam and hot water boilers, in Natural gas districts. Our Jet Burners shown on the next page are used in Artificial and Mixed gas districts, also in smaller appliances upon Natural gas.



Design and Principle

Barber Patented Gas Burners are designed and constructed by Gas Burner Specialists, on scientific principles, there being no mechanical air-mixer to retard the flow of gas, or to cause back-firing under low or fluctuating gas pressure.

The air and gas are mixed by confluence, after the gas has left the burner orifices, creating a vacuum which draws into the flame, the necessary amount of air to cause a perfect mixture The necessary volume of air, being in proper proportion to the gas pressure, and passing within the body of the flame, becomes superheated, thereby causing perfect combustion in a blast flame from eight to ten inches high, according to the gas pressure.

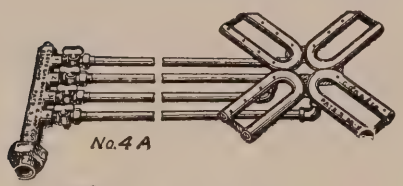
Efficiency and Economy

Barber Burners develop 25 to 40 per cent more heat upon varying gas pressures than is developed by mixer type burners, and will develop efficiently and economically the required heat on one ounce of gas pressure.

They will burn on atmospheric pressure—will not back-fire or deposit carbon—will operate with any good thermostat—and can be quickly removed or replaced, as desired.

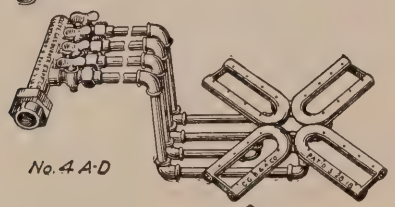
Their unit form of construction provides wide flexibility of gas control, permitting the use of only such units as are actually required in mild weather, or the use of all units in cold weather.

A Few Standard Types of Barber Burners in Use in Over 125,000 Residences in the United States and Canada—Installed Within the Past Eight Years



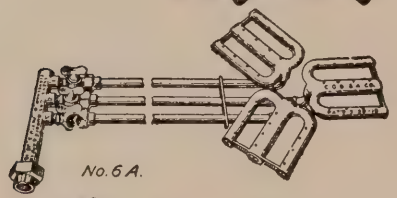
4 Unit, Type "A" Burner (Straight)—$22.50

For round Hot Air Furnaces with fire pot diameters of from 22" to 26" inclusive, heating from 5 to 8 average size rooms.



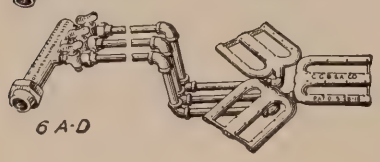
4 Unit, Type "A" Burner with 4" or 6" Drop—$25.00

For round Steam Boilers, rated at from 300 to 500 sq. ft., and round Hot Water Boilers, rated at from 500 to 800 sq. ft.



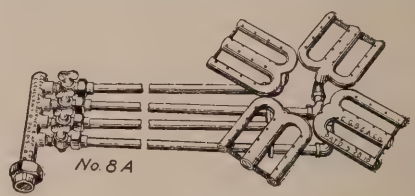
6 Unit, Type "A" Burner (Straight)—$27.50

For round Hot Air Furnaces having fire pot diameters of from 26" to 30" heating from 8 to 14 average size rooms.



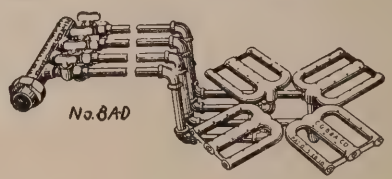
6 Unit, Type "A" Burner with 4" or 6" Drop—$30.00

For round Steam Boilers, rated from 500 to 600 sq. ft., and round Hot Water Boilers rated from 800 to 1200 sq. ft.



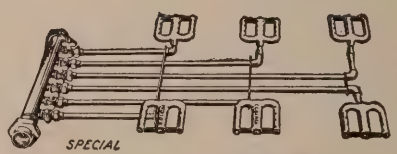
8 Unit, Type "A" Burner (Straight)—$36.00

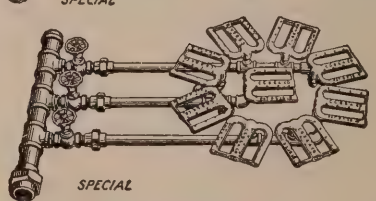
For round Hot Air Furnaces having fire pot diameters from 30" to 34" heating from 14 to 20 average size rooms.



8 Unit, Type "A" Burner with 4" or 6" Drop—$40.00

For round Steam Boilers rated from 700 to 900 sq. ft., and round Hot Water Boilers rated from 1200 to 1500 sq. ft.





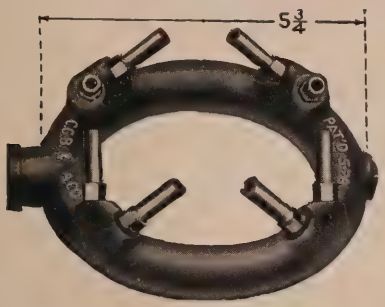
The two Special Burners illustrated show construction of several Twin Unit, Type "D" Burner Units; the first being for a boiler with an oblong fire-box, while the latter is for a 10 H. P. Upright Tubular Boiler.

Write for Catalog Containing Full Information

If you will give us the Manufacturer's name, the Trade Name and the number of your appliance, we will gladly specify proper Barber Burner Equipment for same, without obligation to you.

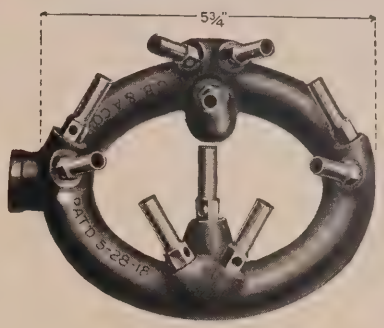
For further details and literature, write to: **The CLEVELAND GAS BURNER & APPLIANCE CO.**

BARBER Patented JET GAS BURNERS

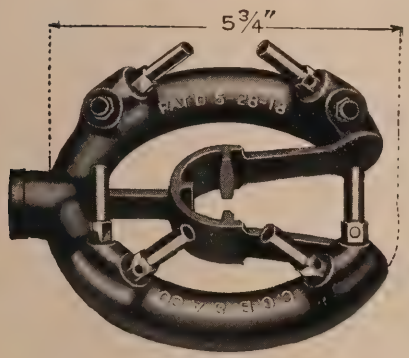


No. S-10

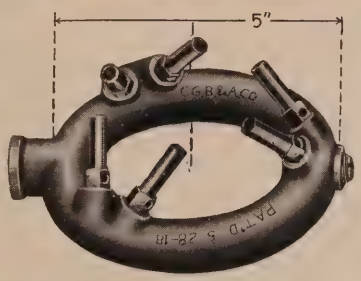




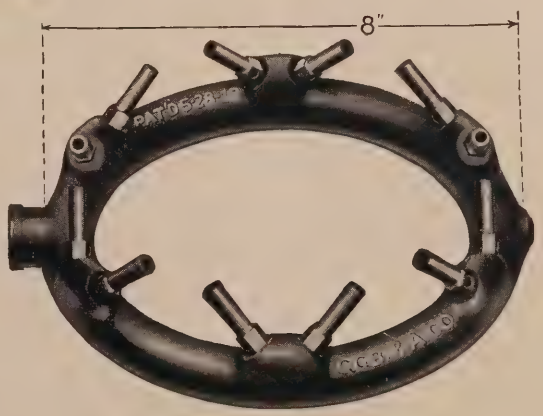
No. S-80



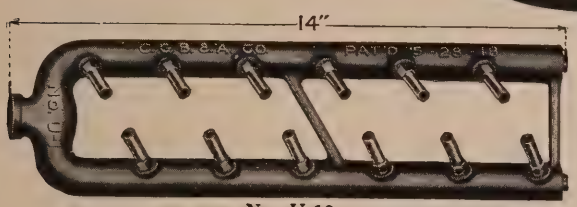
No. S-50



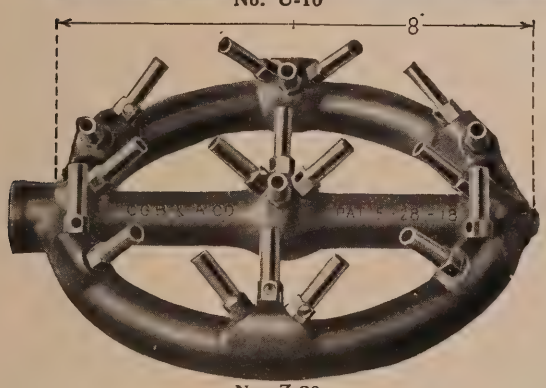
No. K-10



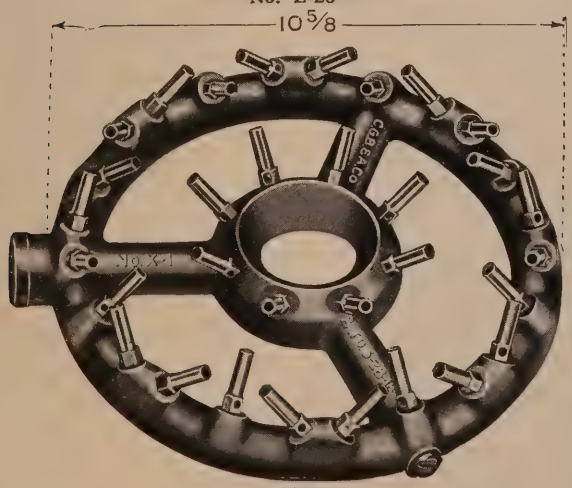
No. Z-10



No. U-10



No. Z-20



No. X-10

No heater is better than its burner and without an efficient burner no appliance stands the test—that's why the leading Manufacturers of Hot Water Heaters, Gas Furnaces, Boilers and Heating Appliances are adopting as Standard

BARBER Patented JET GAS BURNERS

For Artificial, Natural and Mixed Gas

Illustrated on this page are only a few of over 60 types of Barber Patented Jet Burners, which are highly adaptable to Hot Water Heaters—Steam and Hot Water Boilers—Furnaces—Garage Heaters and hundreds of various appliances.

Be sure your Hot Water Heater is equipped with a Barber Jet Burner and you will be insured against high gas bills—back-firing and expensive service charges.

Note these advantages.

1. Reduce gas bills 25 to 40 per cent.
2. Act as their own pilot light.
3. Can be controlled with any good thermostat.
4. Develop 1960 degrees Fahr. with 500 B.t.u. gas.
5. Cannot be affected by corrosion or condensation.
6. Will not back-fire, or deposit carbon—on any pressure.
7. Require no adjustment, or service, regardless of pressures, or quality of the gas.
8. Will produce a perfect orange-green flame with artificial, natural, or mixed gases.

Write us today for our newest catalog, prices and full information. You will not be in the least obligated.

The CLEVELAND GAS BURNER & APPLIANCE CO.
Burner Specialists
3702-04 Superior Avenue, Cleveland, Ohio

CLARK HIGH SPEED WATER HEATER

Made By

AMERICAN HEATING & LIGHTING CO.

MORENCI, MICHIGAN



Product

Clark's High Speed Water Heater is a highly perfected product embodying unusual construction features not found in ordinary heaters but which have proven their value during many years of actual service.

The Clark Gas Producer is illustrated and described on page 409.

Extra Large Heating Surfaces

In place of the usual copper coils, five large, gray iron discs, connected by wrought iron nipples, provide extra large heating surfaces and withstand heat better than any other material.

The water travels through the discs rapidly and no heat is wasted.

Construction

Clark High Speed Water Heaters are carefully constructed from the best materials and are built to give constant and efficient service. They will outwear several ordinary heaters.

They can be used in conjunction with the Clark Gas Producers (described on page 409) or can be connected to the city gas supply and will give exceptional service under either condition.

For further details and literature, write to: **AMERICAN HEATING & LIGHTING CO., Morenci, Michigan**

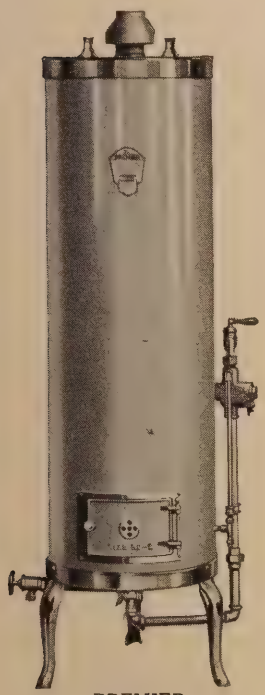
CRANE GAS WATER HEATERS

CRANE CO. General Offices: Crane Bldg., 836 So. Michigan Ave., Chicago

FOR LIST OF BRANCHES AND SALES OFFICES SEE PAGE 338

For other products see pages as follows: Bathroom Fixtures, 338-39; Water Supply and Water Softeners, 324.

Premier, Keystone and *Marvel* Storage Gas Water Heaters illustrated and described on this page.



PREMIER
Automatic Insulated Storage Gas Water Heater

Premier Insulated Automatic Storage Gas Water Heater:

The *Premier* is an insulated storage water heater which provides a constant supply of piping hot water at minimum cost. Its operation is entirely automatic. It is built to give positive satisfaction and enduring service. The *Premier* has a heating element of scientific design, without coils and is practically lime-proof. It is silent, odorless and safe.

Operation—The *Premier* is automatic in action. It is a self-contained unit: heater and storage tank are within the same insulated jacket. It runs itself. A thermostatic device controls the lighting and extinguishing of the big blue-flame burner. A tankful of water is held at any desired temperature between 80° and 190° F.

When the *Premier* is first lighted, the tank-full of water is quickly heated to the temperature for which the theomostat is set. The instant this temperature is reached, the thermostat shuts off the gas supply to the main burner—and an abundance of instant hot water is always ready at the turn of a faucet. When the withdrawal of hot water lowers the temperature in the tank only 14° to 18° the thermostat instantly starts the burner heating more.

The Heating Element—The cold water enters the heating element through the large opening at the top. Then it passes down through the channels, or arms, to the lower compartment, where it is spread in a thin flowing sheet. As the hottest part of the burner flame plays on this portion of the "spreader," the water absorbs the heat from the gas without waste. Immediately upon being heated, it rises through the central pipe, and is discharged at the top of the tank.

The water thus heated is replaced by cold water from the bottom of the tank, creating a constant and rapid circulation and heating the entire tank quickly and efficiently. In addition to its great efficiency, the spreader cannot burn out. Having no flat surfaces, pockets or dead ends, "lime-up" troubles are also practically eliminated.

Burner—The *Premier* Bunsen burner is made in one piece and is designed to give a blue flame of maximum efficiency. No gauze is used and trouble from back firing is eliminated. The burner is fitted with a specially designed mixer, assuring a correct proportion of gas and air. It has a special gas cock designed to give a high nozzle velocity on low gas pressure. It operates with either natural or artificial gas.

Insulation—*Premier* economy is further increased by the fact that when water is once heated it *stays hot* for many hours. The heavily insulated storage tank allows only a slight radiation loss. A thick jacket of asbestos completely surrounds the storage tank and heating chamber. With its protective outer sheath of steel, this insulation conserves heat like a giant "Thermos" bottle.

Storage Tank—The *Premier* tank is constructed of double extra-heavy sheets, heavily galvanized both inside and out. Or the tank may be of double-weight copper, if desired. Hot and cold water connections and fittings are of brass.

Finish—The steel jacket which covers and protects the insulation is finished in smart *Premier* gray enamel. The top, base, door and fittings are first copper-plated and then heavily nickeled.

Sizes—The *Premier* is built in three sizes for domestic and business use.

Size No. 2—For homes with one bath, kitchen sink, usual number of lavatories and laundry trays. $125.

Size No. 3—For homes with two baths, kitchen sink, usual number of lavatories and laundry trays. $160.

Size No. 4—For homes and apartments with three or four baths, larger barber shops, restaurants, clubs, etc. Double burner equipment—double quick heating. $250.

All prices F. O. B. at factory. On display and ready for delivery at all Crane Exhibit Rooms.

The Keystone Automatic Storage Gas Water Heater:

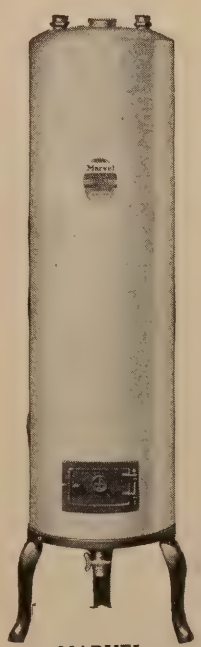
The *Keystone* is very much like the *Premier* in appearance and construction. The tank is extra heavy, inclosed in a thick asbestos insulating jacket, with outer sheath of steel. All circulating pipes and fittings are galvanized.

The *Keystone* is a durable and handsome gas water heater at a moderate price. It has the same sturdy thermostat, burner and heating element of the *Premier* and the operating cost is only a few cents a day.

The *Keystone* is made in two sizes: No. 2-20 at factory, $70; and No. 3-35 at factory, $97.50. Specifications and recommendations are the same as corresponding sizes of the *Premier*.



KEYSTONE
Automatic, Insulated Storage Water Heater No. 2



MARVEL
Storage Gas Water Heater

Marvel Non-Automatic Storage Heater:

The *Marvel* has the same heating element and storage capacity as the *Premier* but is not automatic and is not insulated. When hot water is wanted, the burner is lighted by hand. In a very short time the entire content of the tank is heated. The burner may then be turned low or out as desired. The *Marvel* is more efficient than side-arm combination heaters and tanks, as it is built all in one piece and uses the rising heat to better advantage, recovering a much greater percentage of the heat units.

Tank is extra heavy, galvanized inside and out. Furnished with heat-retaining pan stand.

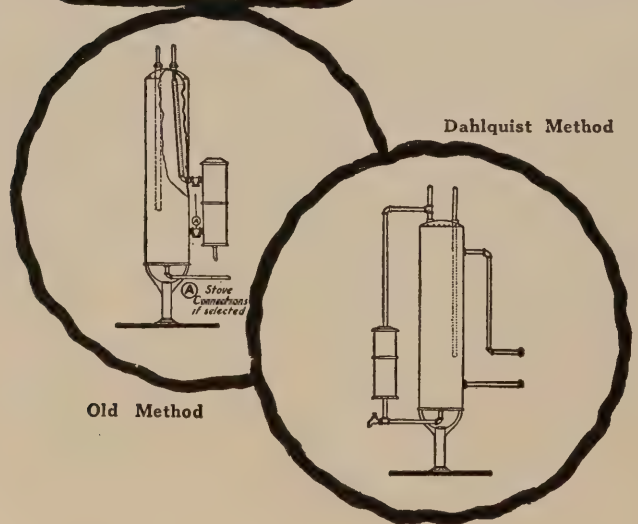
The *Marvel* heater is made in four sizes. No. 18, 12 gallons capacity, $30; No. 24, 17 gallons capacity, $31; No. 32, 23 gallons capacity, $32; No. 42, 31 gallons capacity, $48.50. All prices f.o.b. at factory.

Dahlquist Aquatherm Combination

DAHLQUIST MFG. CO.
30 W. Third St. South Boston, 27, Mass.



Cross section of Dahlquist Aquatherm Copper Range Boiler showing Dahlquist Aquatherm installed.



Products

Copper tanks of various capacities and for every purpose. Hot Water heaters and the Dahlquist Aquatherm combination.

Hot Water Tanks

Copper tanks for hot water supply.

For the home, factory, store, apartment or hotel.

Last a life time.

Prevent rust in water.

Hot Water Heaters

There is a Dahlquist Hot Water Heater to meet every condition. Gas, kerosene, electric and an automatic for a continuous supply of hot water at an even temperature.

Dahlquist Aquatherm

The patented Dahlquist Aquatherm conveys hot water direct into the circulating system.

It consists of two tubes, one within the other and an air space between them. It extends from the hot water connection nearest the heater, up through the cold water on the inside of the tank and connects direct to the circulating system. Thus the hot water is not easily cooled by the cold water. Small holes at the top of the Aquatherm permit the surplus hot water to be stored at the top of the tank.

Hot water is produced in one and one half minutes.

The Aquatherm is sold in connection with the Dahlquist copper tank or by itself.

Any plumber can install the Aquatherm in your own hot water tank.

Saves Material and Labor

The installation of the Dahlquist Aquatherm Combination consisting of Aquatherm Copper Boiler Water Heater and connections, saves the following:

7 feet of pipe
1 non by pass tee
3 ells
2 unions
1 tee
4 hours labor.

The Dahlquist Aquatherm Combination will do away with water hammering.

Will prevent sediment from clogging circulation.

It will prevent hot water circulation from reversing itself.

It will also prevent steam from forming in the return pipe from the Gas Heater.

Write for Prices

Detailed information and prices will be sent to you on request.

For further details and literature, write to: DAHLQUIST MFG. CO. 30 W. Third St. So. Boston, 27, Mass.

"EVER HOT" Automatic Water Heater

Manufactured by

EVERHOT HEATER COMPANY

5239 Wesson Ave., Detroit, Michigan



The JUNIOR Showing Interior Construction.

Capacities

BABY GRAND—Burner capacity 45 to 68 cubic feet of gas per hour. Pilot light burns ¾ of cubic foot of gas per hour. Starting hot, delivers from 37 to 49 gallons of water within one hour at a temperature, at faucet, of 100 degrees above that of incoming cold water.

JUNIOR—Burner capacity 60 to 90 cubic feet of gas per hour. Pilot light burns 1¼ cubic feet of gas per hour. Starting hot, delivers from 50 to 65 gallons of water within one hour at a temperature, at faucet, of 100 degrees above that of incoming cold water.

SENIOR—Burner capacity 120 to 180 cubic feet of gas per hour. Pilot light burns 1¾ cubic feet of gas per hour. Starting hot, delivers from 90 to 120 gallons of water within one hour, at a temperature, at faucet, of 100 degrees above that of incoming cold water.

Construction

Copperoid steel boiler, heavily galvanized with pure virgin spelter inside and out, and reinforced at openings. Handsome satin silver finish which is very durable and radiates a minimum of heat. Heavy terne plate inner and outer shells.

Rock Wool insulation—one of the best known insulators—has a very high refractory value, prevents heat loss.

Flue way is stepped, which increases efficiency and permits larger burner capacity.

Burner is gauzeless, non-flash back, non-carbonizing, noiseless, semi-bunsen.

The draft hood is conical in shape, and so constructed as to enable the heater to operate successfully regardless of flue conditions.

All nipples are sherardized and sweated into drain cock and thermostat, insuring ease of removal.

Simple, positive acting, all metal thermostat, successfully used for nearly a quarter of a century.

Advantages

Only one simple control for temperature setting. Temperature range from cold to 180 degrees.

Perfect temperature control. Not more than five degrees difference in temperature between the water at the top and the water at bottom of boiler. No overbuilding of temperature—liming prevented. The only heater that keeps a tank full of water Ever Hot on a tiny pilot light.

Guarantee

Only the highest grade materials and the finest workmanship are used in EVERHOT Water Heaters. They are guaranteed to be free from defects in material and workmanship for a period of one year. Tested and approved by the Department of Household Engineering, Good Housekeeping Institute.

More than 9,000 sold in one city alone in less than five years.

Baby Grand	$ 66.00
Junior	88.00
Senior	139.00

Sales Offices carrying stock and rendering sales and engineering services are located in principal cities. Write for address of nearest office.



The JUNIOR Showing Exterior Construction.

For further details and literature, write to: **EVERHOT HEATER COMPANY** 5239 Wesson Ave. DETROIT, MICH.

"Holyoke" Kerosene and Gas Water Heaters



"Holyoke" No. 4-30 (Kerosene)

Manufactured by

HOLYOKE HEATER COMPANY

Holyoke, Mass.

Product

Tank Water Heaters (Kerosene and Gas Fired)

"Holyoke" Kerosene Water Heaters

Hot Water is no longer regarded a city convenience alone—the suburban and country homes may also enjoy one of the greatest household necessities—hot water and plenty of it, through the installation of a "Holyoke" Kerosene Water Heater. The "Holyoke" Kerosene Heater is unique, in that it may be used in any place where there is a water supply.

An Unusually Rapid and Economical Water Heater

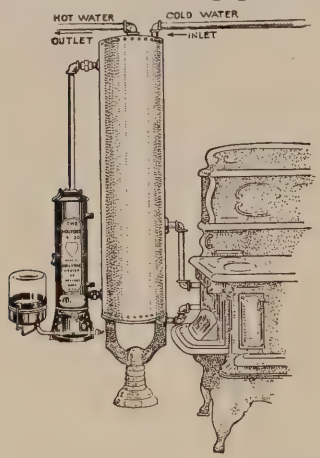
In appearance, design, performance and efficiency, "Holyoke" Tank Water Heaters are unsurpassed.

The arrangement of the "Holyoke" quadruple patented seamless copper coil makes it an unusually rapid heater. The half turn of the coil baffles the rising heated gases, thus utilizing much heat that is wasted in other types of coil construction.

The tubes are of such size that, in the aggregate, the coils present the greatest amount of heating surface to a given volume of water passing through them. Each of the 4 tubes is $\frac{7}{16}$ in. in diameter, with a total of 30 ft. of tubing per coil.



"Holyoke" No. 5-60 (Kerosene)



"Holyoke" Heaters provide an ample amount of hot water quickly, with a minimum consumption of fuel. Every heater is thoroughly tested under 250 lb. water pressure before leaving our factory.

"Holyoke" Heaters are intended for attachment to any type of range boiler or tank and are non-automatic in operation, i. e., they are manually lighted and extinguished.

The burner is our New Improved blue flame wick type. It is instantly and positively regulated and combustion is practically odorless. Burner is attached to a removable cast iron plate supported by the heater back and held in place by a small screw, permitting easy removal for cleaning purposes.

Shell is of cast iron, attractively finished in durable black enamel.

A 9-pint kerosene reservoir is furnished as a part of each heater.

Specifications

Heater No.	Kerosene 4-30 (Single)	Kerosene 5-60 (Twin)	Gas 6-32
Water Connections, inches.	¾	¾	¾
Gas Connections, inches...	.....	.....	½
Height, inches.....	28¼	28¼	24½
Net Weight, pounds.....	40	75	41
Shipping Weight, pounds..	55	90	48
Size of Shell, inches.....	6 diam.	6 x 12	8
Size of Base, inches.....	8 diam.	8 x 13	.....
Floor Space Required when Assembled, inches.....	17 x 9	22 x 9	.....
Capacities, gallons.....	20 to 40	30 to 60	30 to 60

Guarantee

The Holyoke Heater Company guarantees that the "Holyoke" when installed and used in accordance with the Company's printed instructions, will perform the work for which it is intended, and if any part or parts should prove defective within one year from date of installation the Holyoke Heater Company will repair or replace such parts free of charge.

Holyoke Gas Water Heater

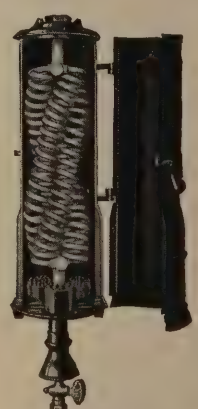
An efficient heater using natural or manufactured gas for fuel.

Shell is of cast iron, the lower part of which has an air jacket or double wall surrounding the heat zone. This air jacket serves as an insulator and minimizes the amount of heat radiated from the shell.

The "Holyoke" coil is reversible, that is, it may be removed and replaced in an inverted position after long use, thus doubling its life.

The burner is of the simple and efficient horse-shoe type. Its adjustable air shutter insures perfect combustion. Burner is readily removable for cleaning without dismantling the heater.

Finished in durable black enamel.



No. 6-32 (Gas) "Holyoke"

For further details and literature, write to: **HOLYOKE HEATER COMPANY, HOLYOKE, MASS.**

HOTSTREAM WATER HEATERS

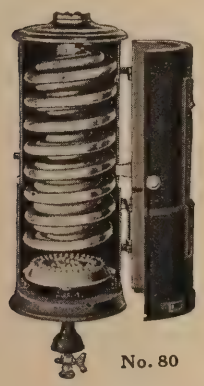
Made by

THE HOTSTREAM HEATER CO.

9502 Richmond Ave., S. E., Cleveland, O.

Products:

This company manufactures a complete line of Cast Iron Jacketed Copper Coil Heaters, including an Automatic Storage Set. All attach directly to standard hot water tank or boiler. Some models are designed to use kerosene as fuel and are readily convertible into gas heaters. All Hotstream Heaters have large combustion chambers and are equipped with a patented burner and mixer that insure perfect combustion and absence of Carbon Monoxide.



No. 80

Hotstream Triple Copper Coil Tank Water Heater No. 80:

This heater is designed for use in apartment buildings, hotels, garages, restaurants, or wherever a large supply of hot water is needed. Also being used to advantage for small hot water heating jobs. There is enough reserve capacity to add an extra radiator on the regular storage system. Has Japan finish with attractive bronze trimmings.

Can be made automatic by the installing of a Hotstream Regulator.

Specifications

No.	Diam. Inches	Height, Inches	Crated, weight, lb.	Capacity, Gallons	Feet Radiation
80	10	24	65	100	250

Gas connection, ½ inch; water connection, ¾ inch; flue, 3 inches.



No. 25U

Hotstream Double Copper Coil Tank Water Heater:

Styles Nos. 20, 25, 30: A powerful tip type burner with bottom feed mixer. Coils are solidly brazed and thoroughly tested. Fitted snugly in the jacket. Suitable baffle plates are used. The door forms one-half of the jacket. Inside is easily accessible. Standard finish is black japan with bronzed trimmings.

Style 20, 25U and 30U is also furnished special with side feed mixer.

Styles 20U, 25U, 30U are the same as Nos. 20, 25, 30 but are furnished with union connections, drip pan base, and lift off burner.

Specifications

No.	Diam. In.	Height, In.	Crated, Weight, Lb.	Capacity, Gallons
20	7	18	30	30-40
25	7	23	40	40-52
30	7	23	42	40-66

Gas connection, ½ inch; water connection, ¾ inch; flue, 3 inches.

Hotstream Kerosene Water Heater No. 20 K. W.:

This burner is particularly adopted for use in country and suburban homes where there is no gas supply, but it can be easily and quickly converted to use gas. It operates in the same general manner as gas heaters and will give satisfactory service in every way.

Instantly lighted at the touch of a match. No generation required. Burns with a steady blue flame without noise, soot, smoke or odor. Flame can be regulated high or low as desired. Heater can be kept going constantly with a low flame, which insures a plentiful supply of hot water at all times.



No. 20 KW

As only the vapor from the burner is consumed the wick will give lasting service with no further attention than an occasional wiping with a soft cloth. The perfect combustion of this burner means a substantial saving of fuel. It consumes 90 gallons of air to one gallon of kerosene—burning 19½ hours on a full fire and 30 hours on a low fire.

A special feature of this heater is the Coil Assembly consisting of four ⅜ inch copper coils connected to brass manifolds with union connectors. Their compactness brings the entire surface of the coils in close contact with the flame. This, together with the small diameter of the coils, insures quick heating of water at low fuel consumption—furnishing hot water at a usable temperature on the first circulation.

The No. 20 GK is a larger heater recommended for greater hot water demand.

Crated Weight:

20 KW—Burner and Heater Complete in one crate, 50 lbs.
20 GK—Burner and Heater Complete in one crate, 52 lbs.

Hotstream Indirect Tank Water Heater No. 606:



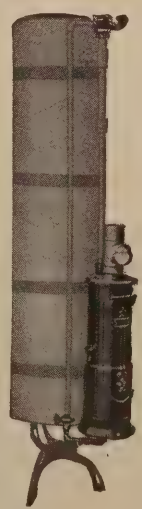
No. 606

For use with vapor and steam boilers—connected on the outside. Furnishes a constant supply of hot water at a temperature of about 160 degrees, at practically no cost. Eliminates the firepot coil in the furnace.

Consists of a cast iron shell 17 inches long and 5 inch diameter housing a No. 20 copper coil, fitted with complete unions and attached with our special connectors (1" Boiler and ¾" Tank connection). Lead gaskets but no packing nuts are used.

Capacity when connected below water line of boilers is 30 to 50 gallons. With live steam at 5 pound pressure—50 to 100 gallons. All parts are easily accessible and every coil is thoroughly tested before assembling; shipping weight 23 pounds.

Hotstream Automatic Storage System:



Supplies "Hot Water Service 24 Hours a Day," year in and year out. Requires no attention or servicing. Easily installed, low in first cost and economical in gas consumption.

CAPACITIES:

No. 20 U.B. 30-40 Gal. No. 70 B. 60-80 Gal.
No. 25 U.B. 40-60 Gal. No. 80 B. 80-120 Gal.

Consists of Hotstream Copper Coil Heater, equipped with Barber Burner, Throttling Type Thermostat, and Automatic Draft Regulator. Standard tank (and cover if desired) obtainable anywhere used. This gives an ideal automatic storage job with circulating heater at a considerable saving in cost over any assemble system.

The Barber burner, which can be turned down without backfiring, eliminates pilot light, and makes possible use of Hotstream Throttling Thermostat, the simplest, most practical made. This Thermostat has no stuffing box, no complicated adjustments, or anything to easily get out of order. Regulates flame according to hot water demand.

Literature:

Illustrating and describing all Hotstream products will be sent upon request, together with prices and any specific information desired.

For further details and literature, write to: **THE HOTSTREAM HEATER CO., Cleveland, O.**

"Pittsburg" Automatic Gas Fired Water Heaters

Manufactured by

PITTSBURG WATER HEATER COMPANY

Pittsburgh, Pa.

Sales Offices in All Principal Cities

"PITTSBURG" and "PITTSBURG BUNGALOW"

Copper Coil Automatic Water Heaters



Made in six sizes:

No. 2, capacity 2 gallons hot water per minute. In Southern States it is suitable for heating water for small homes.

No. 55, capacity 2½ gallons hot water per minute. Suitable for the small bungalow having but two hot water outlets.

No. 65, capacity 3 gallons hot water per minute. This heater is used in the small home with kitchen, bathroom and laundry.

No. 4, capacity 4 gallons hot water per minute. This is the standard size and is the heater we recommend for the modern home having bathroom, kitchen and laundry. This size will supply the average household with all the hot water needed.

No. 6, capacity 6 gallons hot water per minute. This size is adapted for dwellings having two or three bathrooms, butler's pantry, and one or more hall or bedroom lavatories and one shower.

No. 8, capacity 8 gallons hot water per minute. This size is suitable for large dwellings having three to six bathrooms, butler's pantry, several hall or bedroom lavatories, two showers—besides kitchen and laundry fixtures. It is also well adapted for small hotels, restaurants, and small apartment houses, etc.

* * * * * *

"PITTSBURG" LION AUTOMATIC STORAGE SYSTEM

A Unit Storage System for Residences

Made in Two Sizes

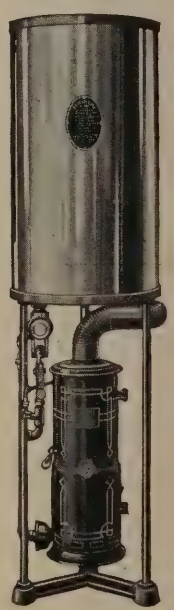
No. 20—20-gallon tank capacity for the home having bathroom, kitchen and laundry.

No. 30—30-gallon tank capacity for residences where the hot water demands exceed those of the average home.

Tank is made of Armco rust-resisting Ingot Iron—also furnished with Copper Tank.

Catalogue furnished on application covering Water Heaters for all types of large and small homes, office buildings, apartments, garages and factories.

27 sizes and types—one for each hot water need.



If it's done with heat, you 

can do it BETTER with Gas.

For further details and literature, write to: **PITTSBURG WATER HEATER CO.** P. O. Box 1109 Pittsburgh, Pa.

Automatic Storage Gas Water Heaters

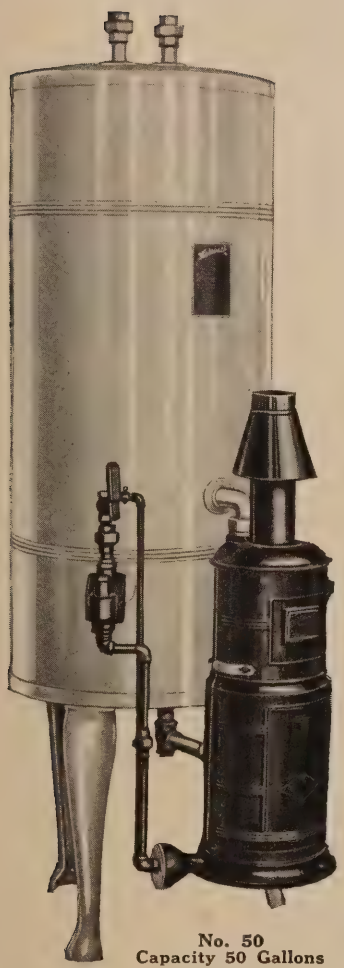
Made by

WELSBACH COMPANY

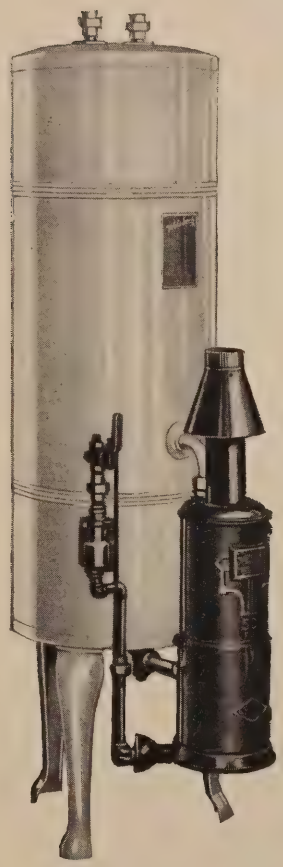
Gloucester City, N. J.

BRANCHES:

New York	Cleveland	Providence
Chicago	Columbus	Washington, D. C.
Boston	Pittsburgh	San Francisco
St. Paul	Cincinnati	Philadelphia



No. 50
Capacity 50 Gallons



No. 30
Capacity 30 Gallons



No. 20
Capacity 20 Gallons

Product:

On this page is illustrated and described but one product made by this company—the Welsbach Automatic Storage Gas Water Heater—which is made in three sizes, all illustrated and described in attractive literature gladly sent upon request.

For other products, see page 468 for Electric Lighting Fixtures, and page 439 for Welsbach Radiant Gas Heaters.

Tanks:

The tanks are made in 20, 30 and 50 gallon capacities. The 20 and 30 gallon tanks have a shell of No. 11 gauge steel, head of No. 8 gauge steel, and bottom is $\frac{3}{16}$ of an inch thick. They are hot dipped galvanized inside and out and tested to 200 pounds water pressure. All seams are riveted and welded.

The 50 gallon tank has a quarter inch shell and $\frac{5}{16}$ inch top and bottom heads, with riveted and copper bronzed seams, tested to 250 pounds water pressure.

Copper boilers can be furnished when desired. Tanks are firmly supported on three heavy cast iron legs, bolted to a cast iron ring to which the tank is fastened.

Heater:

The heater shell is of cast iron, heavily enameled in black. Coils, jacket and burner are arranged to transfer maximum heat from the gas to the water in the coils. Circulating connections are oversized—one inch pipe in the 20 and 30 gallon capacity, and 1¼ inch pipe in the 50 gallon. Water entering the heater coil is taken from a point in the tank two inches above the bottom, avoiding the disturbing of any sediment that may have collected. The heater sets low on the tank which reduces back circulation and cuts down standby losses.

Insulation:

The extra thick hair felt, degreased and sterilized, is the best insulator known. It is wrapped around the tank of the Welsbach and protected by a sheet steel casing. It keeps the water hot for hours and hours without any burning of gas.

Water Coil:

The double copper coil is of No. 18 gauge, which insures long life. It allows a full, free flow of water and provides for rapid heating and economical operation.

Thermostat:

A thermostat of the magnetic snap action type is used. Temperature of water in the tank is maintained between 145 and 160 degrees. Whenever, through withdrawal of hot water or from gradual cooling, temperature falls below 145 degrees, the thermostat automatically turns on the gas to heat it up again.

Burner:

The burner is of gauzeless, single piece, cast iron construction, readily removable from Bunsen tube for cleaning. It conforms with the recommendations of the Bureau of Standards. Under test, this burner and heater shows no carbon monoxide.

Fittings and Pipe Sizes:

All pipes and fittings that come in contact with water are of copper or brass to avoid rust contamination. One inch water inlet and outlet pipes, terminating in full brass unions are used. Gas supply pipes are half inch.

Catalog:

Send for illustrated catalog and price list describing the Welsbach line of Storage Gas Water Heaters.

For further details and literature, write to: **WELSBACH COMPANY, Gloucester City, N. J.** or to nearest branch

JOHN WOOD MANUFACTURING COMPANY

Manufacturers of Gas Fired Storage Water Heaters

Conshohocken, Pa. **Los Angeles, Calif.**

THE MERION:—A High Quality Automatic Storage Heater Built in Large Volume at a Price and Operating Cost, So Low, That Every Home Can Afford One

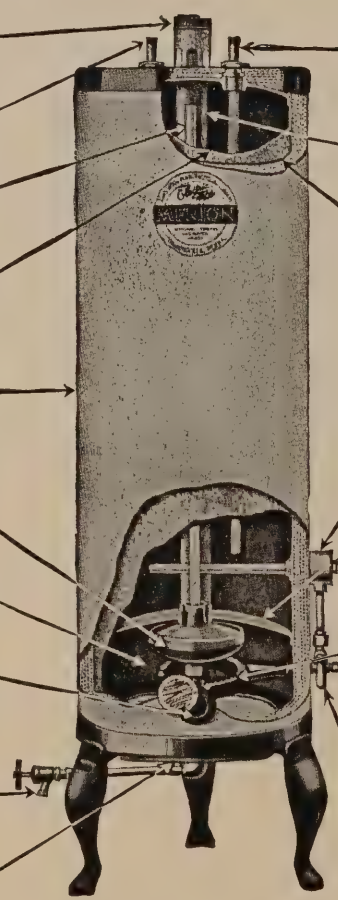
Hot Water at Low Cost—The low price of the family size Merion Automatic Storage Gas Fired Water Heater, $70.00, permits you to place this modern convenience in every home, regardless of price. In addition, its economy of operation results in low gas bill for the user. On request we will be glad to furnish records or copies of gas bills proving this claim.

Features of the Merion Automatic Storage Gas Fired Water Heater—The Merion Automatic is a highly developed and efficient storage water heater that heats the entire contents of the tank to 160° F., and, like a giant thermos bottle, keeps the water at this temperature for immediate use at all hot water faucets.

The construction and operation of this high efficiency, silent, safe and economical heater are fully explained in the illustration below.

Fully Automatic in Operation—When water in the tank is heated to 160° F., the thermostatic valve automatically reduces the gas supply and lowers the flame. When hot water is drawn from the top of the tank, cold water replaces it at the bottom. This causes the thermostatic valve to increase the size of the flame until the hot water is replenished, when the flame is again automatically lowered.

Triple Heating Method Utilizes Heat Units to Fullest Extent Possible—In addition to the heating element (which has a swift thermo-siphon action), the heat units from the gas flame in the Merion are also absorbed through the tank bottom and the internal flue. In this manner, maximum heat transmission is established and the heat losses at the vent are negligible.



Draft Hood—Burned gases pass out here and into the flue.

Hot Water Outlet—A supply of hot water at 160° F., is always available.

Hot Water Riser—Through this tube the hot water rises directly to the top of the tank. No coils are used in the Merion.

Storage Tank—Extra heavy "electric weld" boiler. No solder, no rivets, no leaks.

Casing—Heavy steel. Finished in robin's egg blue enamel (Automobile Lacquer) which is practically indestructible.

Heating Element—Cold water descends into the heating element, spreads over the hot inner surface of the element in a thin sheet, and rises through the tube in the center to the top of the tank.

Combustion Chamber—Enclosed and well insulated. Never gets hot on outside. Takes care of condensation and draft interference.

Self-closing Lighting Hole—Used only when lighting the heater. The Merion has no door or other openings that would allow drafts to affect the burner. This also means safety, as no explosion caused by careless lighting can burn the user.

Drain Cock—Periodical drainage carries off sediment and keeps bottom of tank clean.

Removable Bottom Cover—Allows easy access to heating parts. One-third of its area is asbestos made to push out and release pressure downward if exploded by careless lighting.

Cold Water Inlet—Cold water is immediately carried to the bottom of the tank through the cold water pipe.

Flue—After the hot gases have heated the element and bottom of the tank, they pass up this flue, helping to further heat the water and balancing temperature top and bottom.

Asbestos Insulation—Heater is completely surrounded by cellular asbestos 1¼ in. thick. Radiation losses are very low.

Graduated Thermostatic Valve—Controls the burner. Needs no adjustment, as it is permanently set at the factory. It is full automatic and will adjust itself to different qualities of gas and to varying gas pressures. This feature means low gas bills.

Tank Bottom—Heated over its entire area by the gas flame which is deflected by the heating element, thus heat which is ordinarily wasted is utilized to advantage in the Merion.

Burner—Has no pilot light. When tank is full of hot water, thermostatic valve reduces the gas flow so that the burner acts as its own pilot. Has no gauze and will not clog nor backfire. Has a perfect range of adjustment from 1 to 30 ft. of gas per hour.

Needle Valve Gas Mixer—Set for artificial gas. Adjustable for natural gas. Has high nozzle velocity.

Gas Cock—Can be shut off with one-quarter turn.

Merion Automatic Storage Gas Fired Water Heater

For further details and literature, write to: **JOHN WOOD MANUFACTURING CO., Conshohocken, Pa.**

Merion Automatic Storage Gas Fired Water Heater (Cont'd)

Merion Dual Action Thermostatic Valve—The thermostatic valve in the Merion controls both the "pilot feature" (low flame) of the burner, also the main heat (high flame)—fluctuating gas pressures or varying qualities of gas can not cause trouble as in cases where separate pilot lights are used.

The one action of this valve provides a small gas flow for the low flame (pilot feature) or for small demands, and passes from 1 to 8 cu. ft. of gas an hour. The other action provides a larger gas flow for a high flame (operating only when the demand for hot water is great) and passes up to 30 cu. ft. of gas an hour. Both actions are of the graduated type.

The temperature of the water is held practically constant (160° F.) due to the perfect control of all gas flows by this dual action valve.

No Separate Pilot Light—No separate pilot light is used in the Merion, but instead, a low flame is maintained by the burner through the action of the thermostatic valve, and thus, while serving as its own pilot, the burner keeps the water in the tank at the predetermined temperature until heavy demands require a larger flame.

Economical Operation—The Merion principle of dual action thermostat valve and continuously maintained water temperature works a real saving in cost of operation. Instead of using small storage, low temperature, and extravagant burners that burn intermittently, and create hot water by short, fierce, wasteful blasts of gas, we have taken full advantage of the possibilities of storage and temperature. The Merion can be operated at lower cost than any automatic gas water heater on the market.

Easily Installed—The Merion is a self-contained unit ready for installation. Only two water connections and one gas connection are necessary. Rapid and inexpensive installation is therefore assured.

"Electric Weld" Tank—The storage tank is extra heavy "Electric Weld" construction—there are no rivets nor seams that can leak. Thoroughly inspected and tested before shipment.

Stocked Everywhere and Serviced—Merion heaters are carried in stock by leading plumbing supply jobbers and sold by plumbers everywhere.

Suggestions and sketches for installing Merion heaters in tandem, or battery formation, or in connection with furnace coil, for winter service, will be supplied by us on request.

They are serviced by JOHN WOOD MANUFACTURING COMPANY, which has trained service men available in every section.

MERION AUTOMATIC STORAGE GAS FIRED WATER HEATERS

Size, No.	Cap., gal.	*Diam., in.	*Height in.	Prices	Service
1	15	14	38	$60	For small homes, bungalows and apartments.
2	20	14	50	$70	For homes with 1 bath, laundry and kitchen fixtures.
4	36	18	50	$90	For 2-family houses or large homes with 2 or 3 baths.

*Dimensions given are those of the body of the heater. Legs raise the heater 10 in.
On the right side, the thermo valve and gas cock project 2 in.
Drain cock is below heater.
The following dimensions apply to all heaters: vent connection, 3 in.; gas connection, ½ in.; water connection, ¾ in.

Standard Combination Range Boiler and Gas Fired Water Heater

This combination range boiler and heater is without thermostatic control and is intended for intermittent service. It must be lighted manually when hot water is required and the gas shut off manually when the demand for hot water has been met.

Economical in Fuel Consumption—The Standard has the same principle of internal heater, special design burner, heating element and heating flue that is incorporated in the Merion heater described on the preceding page. This principle means fullest possible utilization of the heat units from the gas, minimum gas consumption and *hot water at the faucet in five minutes.*

The Standard, with its built-in heater, is much more economical in the consumption of gas than an independent gas heater connected to the boiler. Independent heaters have extremely large radiation losses, and it is this lost heat that is used in the Standard for practical heating service.

NON-AUTOMATIC STANDARD COMBINATION RANGE BOILERS AND GAS FIRED WATER HEATERS
(Hot Water in 5 Minutes)

Size, No.	Cap., gal.	*Diam., in.	*Height in.	Service
1	12	12	36	For small homes, barber shops, beauty parlors, etc., where only a moderate supply of hot water is required.
2	17	12	48	For average size homes with 1 bath, kitchen sink and lavatory.
3	24	14	48	For large homes, etc., with more than the ordinary number of fixtures and where an unusual supply of hot water is required.

*Dimensions listed are those of the tank only.
The following dimensions apply to all sizes; vent connection, 3 in.; water connection, ¾ in.; gas connection, ½ in.

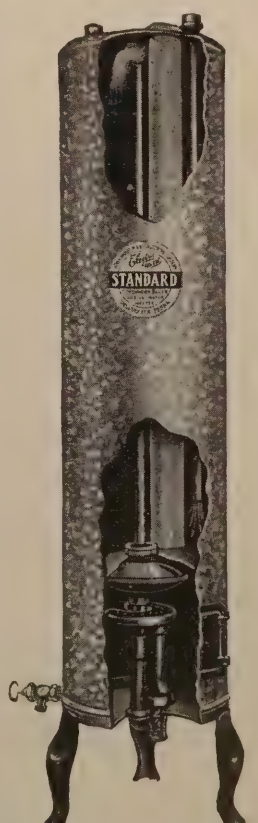
Hot Water in Five Minutes—The incoming cold water descends to the bottom of the boiler and enters the heating element. When the burner is lighted, hot water immediately starts flowing from the heating element up through the hot water riser to the top of the boiler. This quick action gives *hot water in five minutes* and a tank full of hot water in a very short time.

No Condensation— Condensation troubles have been prevented in the Standard by the use of a special design spreader and a pan stand that closes the combustion chamber. All moisture is quickly evaporated—there is no moisture dripping on the floor.

Easily Connected—There are only two water connections and one gas connection to be made, therefore installation is rapid and inexpensive.

The Standard can be connected to the heating boiler or to the kitchen range for winter service, but it is more economical to use gas, the "Standard" way.

"Electric Weld" Construction—The boiler is electrically welded. There are no rivets, solder or seams to leak. Each boiler is fully tested and inspected before shipment, and bears the tester's stamp.



Standard Combination Range Boiler and Gas Fired Water Heater

A-B GAS RANGES

Manufactured by

A-B STOVE COMPANY

Battle Creek, Mich.

Product

A-B Gas Ranges.

A-B Gas Ranges

All A-B Gas Ranges have ovens lined with Wilder metal, guaranteed rustproof. Ovens are extra heavy gauge and in addition are heavily insulated with asbestos. All A-B Gas Ranges are built to A.G.A. Standard Specifications, which are the only standard specifications for gas ranges.

Literature

The following literature is available and will be sent on request:

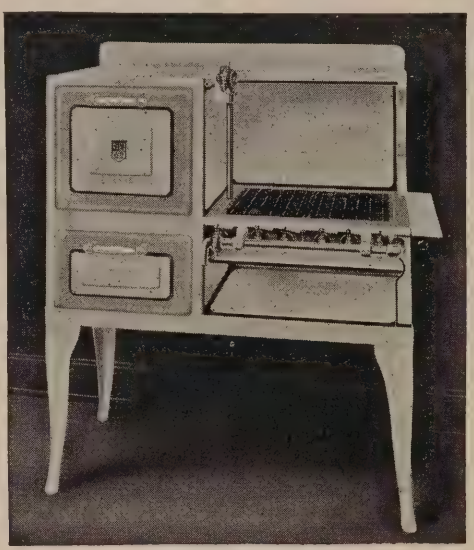
(1) Copy of A.G.A. Specifications.

(2) Booklet, "Modern Apartments," showing photographs of apartments, installations in kitchens, cuts of ranges and detail dimensions.

(3) Descriptive booklet showing styles and sizes adapted to apartment house use.



No. 503 A-B Gas Range
Semi-white



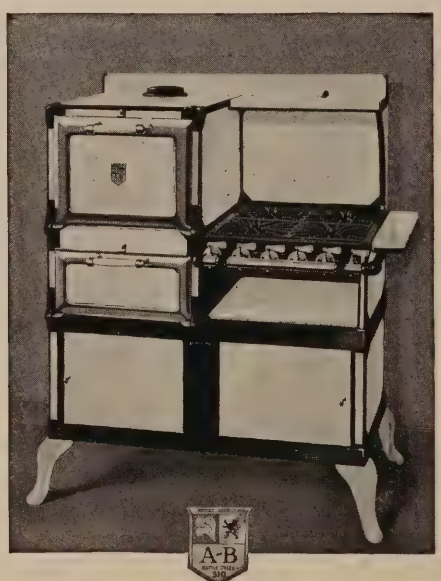
No. 505 A-B Gas Range
White with gray trimmings



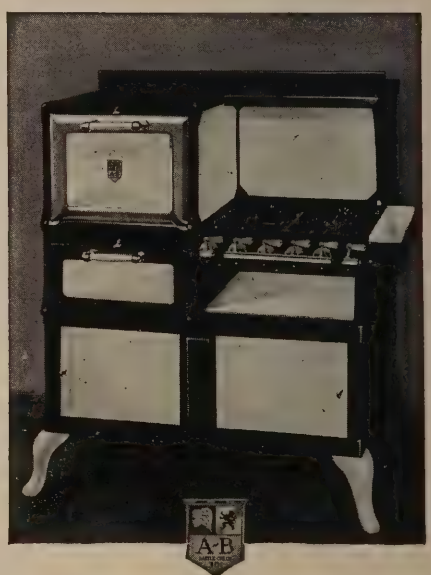
No. 506 A-B Gas Range
Snow white



No. 18-29E A-B Compartment Range



No. 310 A-B Compartment Range



No. 301 A-B Compartment Range

A Few Styles from the Famous A-B Aristocrat Line

Detail dimensions of the above stoves appear on the following page.

For further details and literature, write to: **A-B STOVE COMPANY Battle Creek, Mich.**

A-B GAS RANGES (Cont'd)

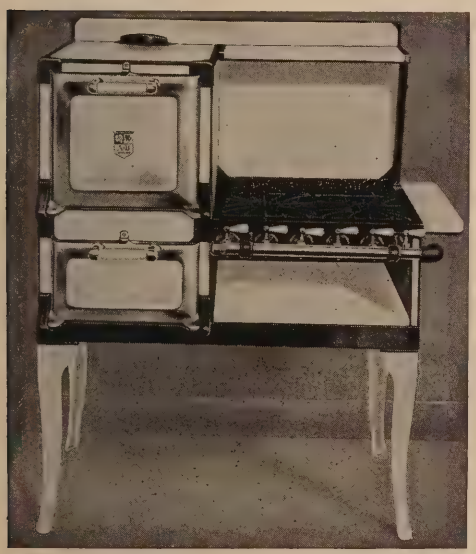
Styles and Finishes

A-B Gas Ranges are made in a wide range of styles, sizes and finishes, but each range is built to conform to the basic specifications of the American Gas Association.

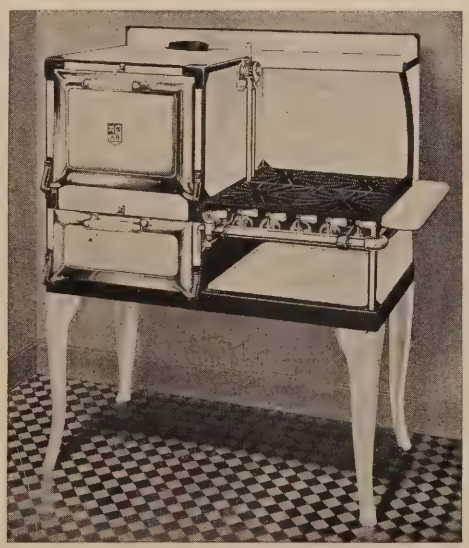
These specifications deal only with the important essentials of construction and should be required when asking for bids on gas ranges. In no other way is it possible to arrive at a correct understanding of value. Space prevents our making a complete showing of all styles and sizes suitable for apartments. Buyers who desire to provide assurance of full utility of space as well as safety, efficiency and beauty in the appliances should request company literature.

Specifications

The specifications given below deal chiefly with size, capacity and appearance. Since the basic specifications for construction are quite important, we wish to emphasize that every A-B Gas Range conforms to the specifications of the American Gas Association. A copy of these specifications will be sent on request.



No. 200 A-B Gas Range



No. 300 A-B-Gas Range



No. 52 A-B Gas Range

DETAIL DIMENSIONS OF A-B GAS RANGES—INCHES

Range No.	Width	Depth	Height	Cooking top*	Oven size†	Finish
503	47	28	53½	21x24	20x16x12	Semi-white—black vitreous
505	47	28	53½	21x24	21x16x14	White with grey doors and top
506	47	28	53½	21x24	21x16x14	All-white—no nickel
200	39	26	48	21x19	21x16x14	White enamel—nickel trim
201	39	26	48	21x19	20x13x12	Black enamel—white splashers, nickel, 4 burners
208	39	26	48	21x19	20x13x12	Semi-white—nickel trim
300	42	26	48	21x19	20x13x12	White enamel—nickel trim
301 Comp.	42	26	50	21x19	20x16x12	Black enamel—white splasher, nickel
308	42	26	48	21x19	20x16x12	Semi-white—nickel trim
18-29 Comp.	45	26	50	21x20	20x18x12	Semi-white—low compartments
310 Comp.	42	26	50	21x19	20x16x12	
52	40	28	57	22x22	18x15x11	Black enamel—white splashers—low compartments
22	31	25	55	16x24	18x16x12	Black—white splashers, 4 burners

*Depth by width. †Depth by width by height.

A Few Notable A-B Installations

Building and Location	Number Ranges
The Villa Norma, New York, N. Y.	50
Congress Apartments, New York, N. Y.	60
Northland Apartments, New York, N. Y.	185
Pickwick Arms Apartments, New York, N. Y.	150
Brainard Road Apartments, Boston, Mass.	75
New Kilsyth Apartments, Boston, Mass.	114
Summit Realty Trust Apartments, Boston, Mass.	108
Parkway Sections Apartments, Boston, Mass.	100
Gaston Circle Apartments, Boston, Mass.	100
Pilgrim Court Apartments, Boston, Mass.	117
Modern Realty Trust Co. Apartments, Boston Mas.	170
Birch & Cadigan Apartments, Boston Mass.	97
Bradford Terrace Apartments, Brookline, Mass.	26
Bedford Hall Apartments, Brooklyn, N. Y.	35
George Washington Apartments, Brooklyn, N. Y.	98

Building and Location	Number Ranges
Buckingham Apartments, Detroit, Mich.	32
Gladstone Apartments, Detroit, Mich.	32
Clifford Manor Apartments, Detroit, Mich.	128
Grace Harper Apartments, Detroit, Mich.	72
Brown Apartments, Detroit, Mich.	24
Adair Apartments, Atlanta, Ga.	20
Earl Apartments, Atlanta, Ga.	10
Bullards Apartments, Atlanta, Ga.	12
Walker Apartments, Atlanta, Ga.	10
Pershing Point Apartments, Atlanta, Ga.	30
Granger Court Apartments, Atlanta, Ga.	10
Hotel Windermere East, Chicago, Ill.	198
New Aldine Apartments, Milwaukee, Wis.	59
Peacock Apartments, Kansas City, Mo.	110

For further details and literature, write to: **A-B STOVE COMPANY Battle Creek, Mich.**

RED CROSS GAS RANGES

Manufactured By

CO-OPERATIVE FOUNDRY COMPANY

ROCHESTER, NEW YORK

RED CROSS
RANGES (Red Cross Ranges & Furnaces) **FURNACES**

Trade Mark Reg. U. S. Pat. Off.

Red Cross Products

Red Cross Gas Ranges; Red Cross Combination Ranges; Red Cross Coal Ranges and Oil Stoves.

Red Cross Furnola Heating Unit; Red Cross Empire Furnaces; Red Cross Ajax Furnaces.

See Pages 359 and 384.

A complete line of high grade cooking and heating equipment.

The Red Cross Gas Range

The outstanding features of the Red Cross Gas Range are its sturdy construction, compactness and good cooking and baking qualities. The Red Cross is specified for use in many of the finest apartment homes in New York and the east—it is installed by hundreds of eastern builders in better class residential homes of the quality type.

Construction

Only the pick of quality materials enter into Red Cross construction—the finest steel and iron that can be obtained.

The baking and broiling ovens are double walled and asbestos insulated to retain the heat and keep the kitchen cool.

All parts are carefully and accurately fitted—the Red Cross Gas Range is unusually sturdy.

The oven bottom on all Cabinet Style ranges is of cast iron—the linings are removable.



Wilcolator Oven Heat Regulator

As easy to read as the hands of a clock—it tells the housewife how to regulate her oven for every thing she bakes.

Attractiveness

Toned in a lasting finish of all-white porcelain enamel; a pleasing combination of gray and white or in soft ebonite, the Red Cross Range is a thing of rare beauty.

Harmonizing, not only with the color scheme, but with the general lay-out of most modern kitchens and kitchenettes, the Red Cross is a distinct aid in selling the housewife on a kitchen's beauty and convenience.

Labor-Saving Features

One giant; one simmering and three regular cooking burners on the Red Cross Gas Range add to its convenience and economy. These burners are also instantly removable for cleansing—no bolts or pins are used.

All ovens linings are instantly removable; the cooking top is of convenient working height and the ovens of easy access without stooping.

Wilcolator Automatic Oven Heat Regulator can be furnished on all cabinet style ranges at small extra cost.

Types and Sizes

Made in a complete range of sizes including the cabinet style with 14, 16 and 18 inch ovens, right or left hand. Three different finishes as listed on chart below. The Three Burner Range, especially suitable for kitchenettes is also made in three finishes and with or without High Shelf as desired.

Catalogs and Prices

Retail dealers and jobbers sell the Red Cross Gas Range and in many cases it is sold direct to builders where the number ordered will so warrant. For the convenience of builders, we issue a special Gas Range Catalog which will be sent upon request.



Red Cross Gas Range 400-W Series Full White Enamel with Cabinet Base

Made in 14, 16 and 18 inch oven sizes.



Red Cross Gas Range 300 Series Special Enamel Finish

Made in 14, 16 and 18 inch oven sizes.



Red Cross Gas Range Three Burner Gray, Full Enamel

Made in one size and three finishes, with or without High Shelf. Broiler in Bake oven.

Sizes and Specifications Red Cross Gas Ranges

Ebonite Finish	214 R or L	216 R or L	218 R or L	Three Burner Gas Ranges
Special Enamel Finish	314 R or L	316 R or L	318 R or L	1163 Gray Full Enamel
Full White " "	414W—R or L	416W—R or L	418W—R or L	1163 White Full Enamel
Gray " " "	414G —R or L	416G —R or L	418G —R or L	163 Ebonite Finish
Baking Oven	14x18x12	16x18x12	18x18x12	16x12½x12
Broiling Oven	14x18x9	16x18x19	18x18x9	(In baking oven)
Cooking Top	18x23	21x23	21x23	13½x28
Height to Cooking Top	34 inches	34 inches	34 inches	31½ inches
Extreme Height	48 inches	48 inches	48 inches	48½ inches
Floor Space Required	36 inches	43 inches	45 inches	28 inches

Note: Cabinet Base requires no extra space. R or L Signifies right or left hand ovens.

For further details and literature, write to: **CO-OPERATIVE FOUNDRY COMPANY, Rochester, N. Y.**

The Mascot Cabinet Gas Range

Belongs in Every Kitchen Where Space Is Needed

Made by

MASCOT STOVE MANUFACTURING COMPANY

Chattanooga, Tennessee

The Picture on the Right Tells the Story

The old-time gas range was designed in the days when kitchens were much larger than they are now. Space saving was of no consequence, so the gas range could be 50 inches wide and nobody cared. But today houses are being built in which every square foot of space must justify its existence. We have learned that waste space is costly—and inconvenient. The housewife finds it easier to work in a small kitchen where everything



Gray Enameled (No. GG-4-18) Plain Finish (No. PG-4-18)

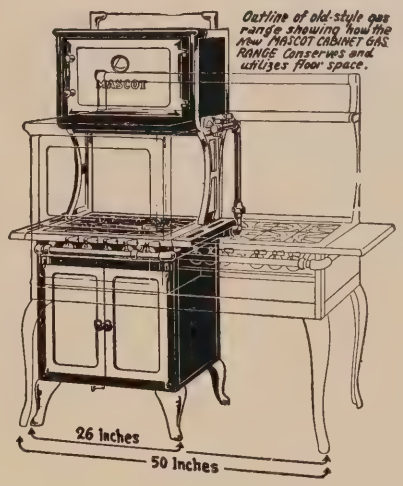
Made Also in High Finish (No. HG-4-18) and Blue Enameled (No. BG-4-18)

is within convenient reach than in a big kitchen where she walks miles a day going from range to sink, from sink to pantry, and from pantry to range and sink again.

The Range for the Small Kitchen

The Mascot Cabinet Gas Range is the ideal range for the small, modern kitchen. It occupies a floor space of only 26x22 inches—yet it has all the conveniences you will find in a range twice its size. Here are some of them:

Three standard size star burners, one master burner, one simmering burner;



Standard size oven—18″x18″x11½″, furnished with or without Broiler, Automatic Lighter and Oven Heat Regulator. Oven is just the right height so that housewife can reach into it without having to stoop over.

A large, roomy cabinet in bottom of range for pots and pans—22″x18″x18″.

Construction and materials of the highest quality—rust-resisting Wilder Metal for the oven lining; Armco Ingot Iron (also rust-resisting) for all other sheet metal parts; Cast iron oven bottom, a better radiator of heat than sheet metal; Insulated oven construction, reducing heat losses to a minimum, etc.

Cast iron body—nickel trim. Enameled oven door. Enameled splasher, back guard and cabinet panels, except in Plain Finish type. Three standard size star burners, one master burner, one simmering burner. Rutz Automatic Lighter. Full size oven, 18″x18″ x11½″. Storage cabinet 22″x18″x18″. Floor space required only 26″ wide by 22″ deep. Weight 221 lbs. Furnished with or without Broiler in oven or Oven Heat Regulator.

Write for Literature

We shall be glad to send you full particulars on request. This is the range to use in the small kitchen —compact, convenient, efficient!

MASCOT STOVE MFG. CO.

Chattanooga, Tenn.

Richardson Gas, Coal and Combination Ranges

Since 1837

Manufactured by

RICHARDSON & BOYNTON CO.

Executive Offices: 260 Fifth Ave., New York City

Factory Dover, N. J.

For branch offices, see page 367

Other Products

Warm Air Heaters and Pipeless Furnaces see pages 367-69.
Round and Sectional Boilers, see pages 390-93.
Hot Water Laundry and Tank Heaters see page 400.

Richardson "Perfect" Combination Gas and Coal Ranges

These ranges offer the combined advantages of a gas and coal range. Gas and coal can be used separately or together as desired. They are made in various styles and sizes to fit every need. Finished in either standard black finish or gray enameled finish. While the enameled finish costs slightly more, this is more than made up in the saving of labor in keeping up the appearance of the ranges.

The bright gray enamel finish is exceptionally attractive and is easily kept clean—a damp cloth removing all dust that might collect. Three coats of enamel are baked on at a very high temperature which virtually fuses the enamel with the iron making a lasting finish. Ranges are fitted with polished iron tops, in keeping with the other attractive features of these ranges. Three popular models are illustrated.

"Perfect" ranges have earned a reputation for their scientific and practical construction as well as for their appearance. They lessen the labor of cooking, decrease fuel consumption and reduce the expense of repairs.

Some of the valuable features of Richardson "Perfect" ranges are:

Correct Construction—by which the proportions of grate, firebox and flue assure the highest efficiency of fuel consumption.

Removable Grate—which can be taken out without disturbing the brick grate-rest or water-back.

Large Flue—distributing the heat equally around the oven which results in perfect baking and cooking with the least expenditure of fuel.

Large Broiling Door—Very convenient for broiling purposes.

Heavy, Large Water Back—assuring an abundance of hot water.

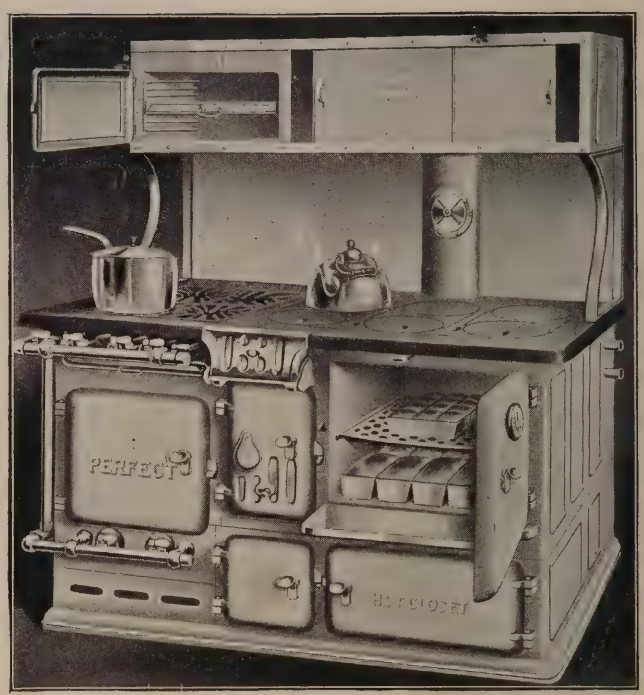
Extra large, Roomy Oven with Foot Attachment for opening oven door.

Richardson "Perfect" Grates and Ash Chute



Ash Chute

All "Perfect" Coal or Combination Coal and Gas Ranges are furnished with triangular revolving ventilating grate bars for burning coal or wood, which insure a clean, fresh fire. The ash chute illustrated can be supplied for all "Perfect" ranges that rest upon the floor without legs. Ashes drop directly into a pit or ash cans placed in the cellar, doing away with the removal of ashes in the kitchen. The attachment consists of ash chute, one damper and two lengths of galvanized pipe. Where cans are used, a close-fitting top for can and telescopic section of pipe should be specified to be supplied by sheet metal contractor.



Richardson "Perfect" Combination Coal and Gas Range No. 428

This range can be used for either coal or gas separately, or together, as desired. It has an exceptionally large cooking surface and roomy baking and broiling ovens.

It is equipped with an upper gas broiler and hot closet. The range top has six covers, the gas section four large and one simmering burner.

Like all Richardson coal ranges, this range is equipped with triangular grate bars, a large fire box with sufficient capacity for a lasting and economical fire.

The check draft and damper control the amount of heat, and keep the ovens at an even temperature. Indicators on both coal and gas ovens show the temperature of ovens at all times.

This range may be had with nickel plated shelf and enamel back instead of upper hot closet, if desired.

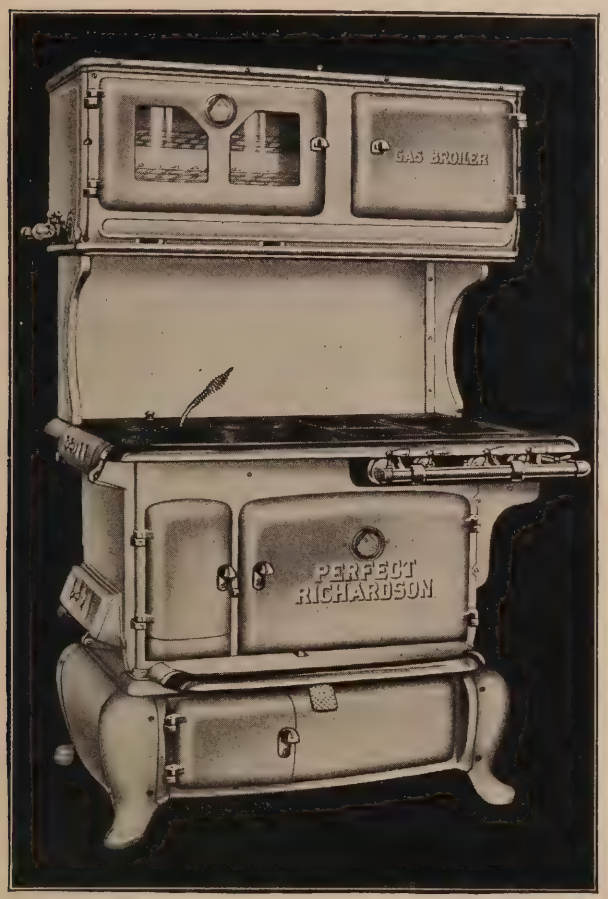
Water back connections may be taken to either right or left side of range. Ash chute can be furnished if desired.

Dimensions

Width of Top	49½	inches
Depth of Top	28	inches
Height of Range	30	inches
Height with upper gas Broiler	60	inches
Height of Plate Shelf	46½	inches
Size of Coal Oven	18 x 16 x 12	inches
Size of Gas Oven	18 x 14 x 12	inches
Size of Gas Broiler	18 x 14 x 9	inches
Smokepipe	7	inches
Fire Box	15 x 7½	inches

Waterback will heat 40-gallon boiler.

For further details and literature, write to: **RICHARDSON & BOYNTON CO., NEW YORK CITY**



Richardson "Perfect" Combination Coal and Gas Range No. 488

This range combines all the good features of either a coal or gas range. It can be furnished in either gray enamel, or black finish, and is a very attractive and efficient range.

The large 20-inch single oven is heated by coal and the 18-inch gas oven at top gives ample space for baking, either separately or together. The gas broiler is conveniently located at the same level as the gas oven and is large enough to meet all requirements. The eight lids on the range top consist of four coal and four gas openings. This range is equipped with dock-ash grate bars (but may have triangular revolving grate bars); dustproof fire box, preventing dirt falling on the floor; ash pan concealed in the skirt base, all of which add to the convenience and serviceability of the range.

Dimensions

Width of Top	43 inches
Depth of Top	28½ "
Width of Range, overall	48 "
Depth of Range, overall	38 "
Height to Range Top	33½ "
Height with Upper Gas Broiler	66 "
Size of Coal Oven	20 x 20 x 11 "
Size of Gas Oven	20 x 16 x 11 "
Size of Gas Broiler	15 x 16 x 9 "
Smokepipe	6 "
Fire Box	16 x 7 "

Waterback, connections at rear, will heat 40-gallon broiler.



Richardson "Perfect" Combination Coal and Gas Range No. 688

This range has a large oven heated by coal and a large, high oven heated by gas. A roomy gas broiler is on the same level as the gas oven.

The coal range has triangular revolving grate bars, and a hot closet below the coal oven.

The range top is provided with four coal lids and four large gas burners. The dustproof fire box prevents dirt from falling on the floor when shaking the grate and concealed door catches prevent any collection of dust. Rounded hinges assure the range being easily cleaned with a cloth.

Furnished in either gray enamel or black finish. Can be fitted with ash chute.

Dimensions

Width of Top	43½ inches
Depth of Top	26 "
Width of Range, overall	48 "
Depth of Range, overall	29 "
Height to Range Top	31 "
Height with Upper Gas Broiler and oven	63½ "
Size of Coal Oven	18 x 18 x 12 "
Size of Gas Oven	20 x 16 x 11 "
Size of Gas Broiler	15 x 11¾ x 9¼ "
Smokepipe	7 "
Fire Box	15¼ x 7½ "

Waterback, connections at rear, will heat 40-gallon broiler.

Richardson "Perfect" Coal Ranges

These ranges are made in many styles and sizes. They are easily handled and are economical in fuel. The large ovens bake to perfection. The powerful waterback assures an abundance of hot water. They are attractive in appearance and strong and durable.

The "Perfect" triangular revolving, ventilating grate bars insure a clean, bright fire, and are easily replaced when necessary. They are the best grates ever used in a cooking range. Grates can be removed without disturbing the brick, grate rest or waterback.

Ranges can be furnished in full enamel or standard black finish.



Richardson "Perfect" Coal Range

No. 862 Finished in Either Plain Black or Gray Enamel.

This is a high grade single oven coal range which can be equipped with nickle plate shelf, or upper hot closet, removable grate, either duplex or flat, for coal or wood. The cooking top is large, with six covers. Has a large broiling door and large, heavy waterback that will heat a 35-gallon boiler. Important features are: Dustproof fire box which prevents dirt falling on floor when shaking grates, concealed door catches preventing collecting of dust, rounded hinges insuring easy cleaning as there are no places to catch cleaning cloth.

Dimensions

Width of Top	36 inches
Depth of Top	26 "
Width of Range, overall	43 "
Height of Range	30 "
Height, with Plate Shelf	46½ "
Height, with upper hot closet	58 "
Size of Oven	17x17x11 "
Smoke pipe	7 "
Fire Box	13½x7½ "



Richardson "Perfect" Coal Range

No. 882 Finished in Either Plain Black or Gray Enamel.

A very high grade single oven coal range, finished in either gray enamel or plain black. Has large top with six covers and large broiling door. Can be furnished (as illustrated) with upper Hot Closet or Nickel Plate Shelf.

Dimensions

Width of Top	39 inches
Depth of Top	27 "
Width of Range, overall	46 "
Height of Range	31 "
Height with Plate Shelf	47½ "
Height with Upper Hot Closet	59 "
Size of Oven	18x18x12 "
Smokepipe	7 "
Fire Box	15¼x8 "

Waterback, connections at side, will heat 40-gallon boiler.



Richardson "Perfect Grand" Coal Range

No. 108-20.

This is a particularly attractive type of single oven coal range and can be furnished in either gray enamel or standard black finish, and with single mantel and Tea Shelf (as illustrated) or double mantel.

Dimensions

Width of Top with shelf	44½ inches
End Shelf	7 "
Height of Top	32¾ "
Depth of Top	29 "
Width of Top with Gas Oven	54 "
Width of Top with Reservoir	52¾ "
Size of Oven	22x20x11 "
Fire Box	16x7 "
Height with Tea Shelf	44½ "
Height including Single Mantel	54 "
Height including Double Mantel	55¾ "
Smokepipe	6 "

Waterback, connections at rear, will heat 40-gallon boiler.

General Description

These ranges are equipped with every modern improvement to insure satisfactory cooking with the least possible labor and lowest gas consumption. All cooking surfaces are at the most convenient height and of correct size for the greatest possible economy in operation. The oven burners maintain as even a quality of heat when operated at one-third or two-thirds capacity as when turned on full—giving the best results in baking, cooking or pre-heating.

Ranges are supplied in three different oven capacities—18, 16 and 14 inch. Three finishes—full enamel, three quarter enamel and plain finish.

There are two particulars in which the Richardson "Perfect" unquestionably leads all competition.

The Oven

The four-way oven applies heat evenly to all six sides of the oven—to the four walls and also to the top and bottom. The heat circulated is evenly distributed, everywhere enough—nowhere too much.

The Burners

The "Perfect" oven burner has ample capacity to allow for gas expansion inside the burner which prevents the floating of gas through the burner opening. This is of great importance over a long firing period. The extra size of the supply arm, permits an ample volume of air to mix thoroughly with the gas. All top burners are one-piece seamless castings drilled to concentrate the heat and are easily removable. They cannot leak gas.

A glance at the illustrations will show that "Perfect" Gas Ranges have great beauty of design. The white porcelain enamel is of the highest quality. The aluminumized oven linings are baked on and are not subject to rust or discoloration.



"Perfect" No. H-418 BS

An all enamel six burner range, with one oven for the larger kitchens. All top, oven and broiler burners are of generous size scientifically designed to render the finest, most economical service. The ovens are removable. Right or left hand ovens are optional.



"Perfect" D-416 Range

A handsome and convenient cabinet range, provided with lower compartment for the storing of cooking utensils, etc. Furnished with right or left hand oven. End shelf is removable.

DIMENSIONS. Baking Oven 16x12x18 in. Broiling Oven 16x9x18 in. Cooking Top 18x21 in. Exact floor space 42½x22½.



"Perfect" No. F-418 BR Range

An all enamel range as illustrated but can also be finished in three quarter and plain finish. Cooking top has four large burners and one simmering burner and self lighter. Boltless front, porcelain enameled oven linings, concealed hinges, sanitary parallel line cooking top, oven vent pipe in rear. Can be furnished in right or left oven with or without oven regulator.

DIMENSIONS. Baking oven 18x14x19 in. Broiling Oven 18x9x19 in. Cooking Top 22x21 in. Exact floor space 49x25½ in.

Quality Gas Ranges and Appliances

Made By

ROBERTS & MANDER STOVE CO.

Eleventh St. and Washington Ave., PHILADEPHIA, PA.

THE MARK OF A GOOD RANGE

Quality

TRADE MARK

ALL THAT THE NAME IMPLIES



No. 1838-CE

Baking Oven	18 x 18 x 12 in.
Broiling Oven	18 x 18 x 9 in.
Length less end Shelf	44 in.
Height	56 in.

FOR BUILDERS WHO TAKE THE SAME INTEREST IN HOMES THEY BUILD FOR OTHERS AS THEY WOULD THEIR OWN

Builders have found that the Quality Gas Range is the lowest priced satisfactory range that they can install. Its beauty increases the salability of any home. It has the appearance of value and its widely known name is an assurance of value. Economical—efficient—durable—and very attractive.

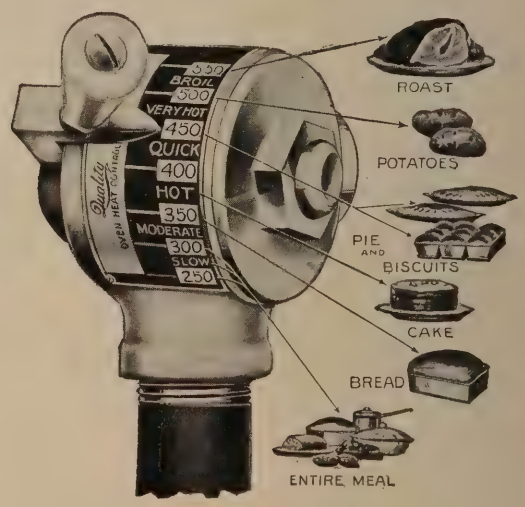
The metal tag or name plate which is attached to Quality Gas Ranges and Appliances is a guarantee that they are constructed in strict compliance with the standard specifications of the American Gas Association, Inc.

A few points that make QUALITY a leader among Gas Ranges.

I. Standard weight sheet metal parts used throughout.
II. Extra heavy manifolds and burners of economical design.
III. Proper insulation of ovens.
IV. Gas cocks so designed to take wear and prevent leaks.
V. All enamel parts made of armco iron.
VI. All ovens constructed to insure an even distribution of heat.
VII. All 14", 16" and 18" oven ranges can be equipped with cabinet base.
VIII. All cabinet ranges can be equipped with the Quality oven heat control.
IX. Rust resisting enamel oven linings can be had for all Quality Cabinet Ranges.

Quality Oven Heat Control

The Quality Oven Heat Control is constructed according to the oldest and simplest method of Thermostat construction with the refinements and improvements of later years. The thermostatic elements, copper and carbon, will not deteriorate to the slightest degree on cooking temperatures.



Quality Oven Heat Control

For further details and literature, write to: **ROBERTS & MANDER STOVE CO., Philadelphia, Pa.**

Quality RANGES CAN BE HAD IN WHITE AND GRAY ENAMEL FINISH OR REGULAR BLACK JAPAN FINISH



No. 2036-E
Quality White Porcelain Enameled Range
With Cabinet Base

Same Dimensions as No. 2036-S



No. 2036-S

Baking Oven	14 x 18 x 12 in.
Broiling Oven	14 x 18 x 9 in.
Cooking Top	18x 21 in.
Length	37 in.
Height	48 in.



No. 1837-HE

Quality Half Enamel Cabinet Range
With Cabinet Base

Baking Oven	16 x 18 x 12 in.
Broiling Oven	16 x 18 x 9 in.
Length, less Shelf	42 in.
Height	50 in.
Cooking Top, less Shelf	23 x 23 in.
Height of Cooking Top from Floor	33 in.

ALL Quality CABINET RANGES CAN BE EQUIPPED WITH THE Quality OVEN HEAT CONTROL

It is well worth while looking into the complete Quality line—of which these are but a few.

Our latest catalog showing the entire line of full white and gray enamel ranges, together with regular finish ranges, will be forwarded upon request.

Quality

Roberts & Mander Stove Co.
11th and WASHINGTON AVE. PHILADELPHIA, PA.
Western Branch:
324 No. San Pedro Street, Los Angeles, Calif.

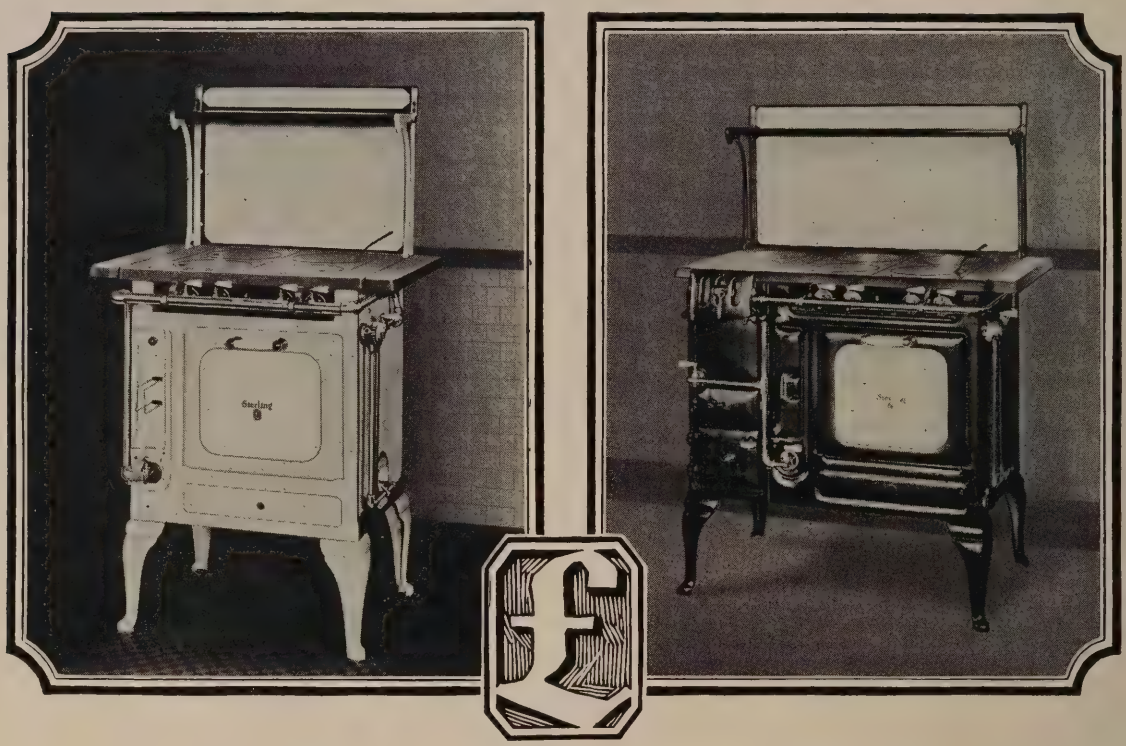
For further details and literature, write to: **ROBERTS & MANDER STOVE CO., Philadelphia, Pa.**

STERLING GAS RANGES

as dependable S *as sterling silver*

Made by

STERLING RANGE & FURNACE CORP.
ROCHESTER, NEW YORK



Model X-4

This range supplies more capacity than the ordinary cabinet gas range and yet occupies only thirty-two inches (32″) of floor space, or can be put in an even smaller recess by removing the top shelf.

Top cooking—oven cooking—broiling—these three cooking operations can be done on this range with maximum speed, and minimum fuel expense and labor.

Cooking Top—the Sterling "Klean-top" with its drop fingers operates perfectly either as a close top or an open top. When only a small vessel is to be used the open top gives greatest speed and economy. For a large meal the closed top gives ample room and can be heated by using simply the two front burners.

Oven—19¼ inches deep, 14 inches high, and 16 inches wide—large enough to roast an eighteen or twenty pound turkey. Bakes evenly in all corners, top and bottom. The automatic oven control regulates it for any kind of baking.

Broiler—No pan to scour and wash, guaranteed against catching fire, broils on both sides at the same time. It requires no pre-heating and broils in less than half the time and with less than half the fuel of the usual broiler.

Model X-6

The Model X-6 differs from the X-4 in only two particulars It is 4 inches wider and it has added to it the fire-box of the Scientific Sterling, that for ten years has been giving satisfaction to thousands of users.

Fire Box—this fire box serves three purposes. It warms the kitchen. It gives an economical and constant supply of hot water. It is a convenient method of disposing of much kitchen trash and waste virtually a handy incinerator.

This fire box will burn equally well any fuel—coal, wood or coke, and has a gas kindler. The fire box is 15 inches deep and incorporates all the features that have made Sterling ranges famous, such as the rounded end and the well known Sterling grates.

Both the X-4 and X-6 can be obtained in black or in beautiful and easy-to-clean enamel. The extra-size flue keeps the kitchen free from objectionable cooking odors.

For further details and literature, write to: **STERLING RANGE & FURNACE CORP., Rochester, N. Y.**

STERLING PRODUCTS

~as dependable S *as sterling silver*

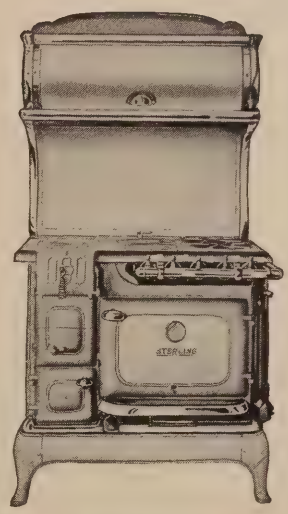
Made by
STERLING RANGE & FURNACE CORP.
ROCHESTER, NEW YORK

SCIENTIFIC STERLING COMBINATION COAL & GAS RANGE

This popular, efficient cooker gives the solid comfort of a coal range and the convenience and speed of a gas range—all in one compact unit. One turn of a lever changes it from coal to gas. Or, if extra capacity is required, both may be used at the same time. It is warm in winter and cool in summer. The patented water heater, which is built right into the range, is equally satisfactory with either coal or gas. It is the only successful combination heater made. The Sterling Scientific saves time, trouble and fuel.

Special features of the Scientific Sterling are:

1—Two complete ranges in 36 inches of floor space.
2—Deep, roomy ashpan or ash chute direct to cellar.
3—Large, square oven. Patented flues make it bake evenly, no cool spots.
4—Reliable oven heat indicator.
5—Double thick fire brick.
6—Sterling grates give highest type of combustion.
7—Gray Enamel or Satin Black finish.
8—Polished top requires no blacking.
9—Large door for feeding coal.
10—Large clean out.
11—Open grills or closed top over gas burners.
12—Gas broiler and coal broiler.
13—Especially durable gas cocks.
14—Extra heavy manifold.
15—High test silicon iron (no scrap used).
16—Approved by Good Housekeeping Institute.
17—Double Guarantee Bond.



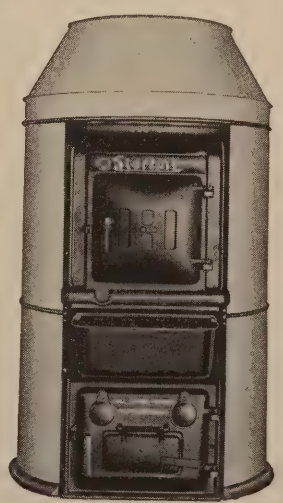
THE STERLING MODEL 300W WARM FLOOR FURNACE

Is the result of many years of scientific study and experimenting. It has solved the heating problem in many homes. It can be supplied for either pipe or pipeless installation. It occupies but small space in the cellar, and keeps the home beautifully warm in the coldest weather with only half the fuel that the average furnace consumes.

Almost any furnace will fill a home with "just heat," but to be *healthful* it must contain the proper proportion of freshness and moisture which makes it invigorating and health-giving. With Sterling furnaces, the cold air is drawn down to the furnace, passes over the hot castings, is moistened by the large humidifier, and passes up through the house. Thus, a continuous circulation of warm, moist air is created—the most healthful system of heating yet devised.

Sterling Triplex Grates support the fire perfectly and yet have 70% of their space open to allow a free passage of air. The large combustion dome allows plenty of room for complete combustion. Every lump of coal is burned thoroughly. Heat is not wasted up the chimney.

For homes that are not suitably designed for pipeless furnaces, there is a Sterling pipe furnace. Give us your specifications and we will be glad to send you full particulars of the Sterling furnace that will heat your home satisfactorily and economically.



THE STERLING "CHEERY-GLOW" HEATER

Gives furnace heat with less fuel consumption than the average stove. Unlike an ordinary stove which heats only one room, the "Cheery-Glow" circulates warm, moist, health giving air throughout the entire house. It is the ideal heating system for a small home of 3 to 5 rooms. The large illuminated feed door gives fireplace cheerfulness without the smoke and dirt of an open fire.

The "Cheery-Glow" requires no cellar or expensive furnace installation. It can be easily and quickly set up in the fall and taken down in the spring. With its natural grain walnut finish and its attractive Queen Ann design, the "Cheery-Glow" adds to the appearance of any room.

We haven't space here to tell you of all the exclusive features of this efficient heater —such as the slotted firepot and the large combustion chamber which are two reasons why the "Cheery-Glow" burns less fuel—the reversible grates which give equal satisfaction with either coal or wood—and the smoke pipe connection, which can be made low down straight into the chimney or the usual style depending upon conditions. Write us for full particulars.



'For further details and literature, write to: **STERLING RANGE & FURNACE CORP., Rochester, N. Y.**

Thatcher Ranges and Tank Heaters

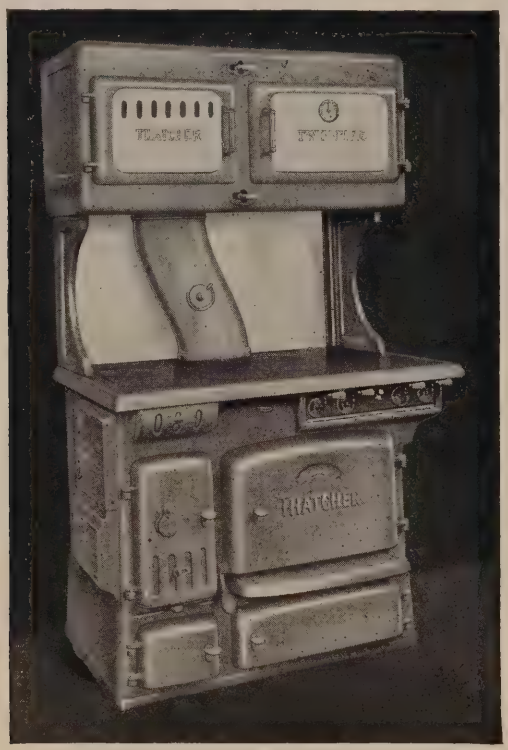
EASTERN
DISPLAY ROOMS
21 West 44th St.
New York

Made by
THE THATCHER COMPANY
Formerly THATCHER FURNACE CO.
General Offices: THATCHER BUILDING
39-41 Francis St., Newark, N. J.

WESTERN
DISPLAY ROOMS
341 N. Clark St.
Chicago

Products

The complete list of products of this company is given on page 398. Thatcher Warm Air Furnaces are illustrated and described on page 372, and Thatcher Boilers for Steam and Hot Water Heating on pages 398-99.



Thatcher Twin-Fire No. 100
Combination Coal and Gas Range

Extreme Width	40 in.	Gas Oven	19x16x11¼ in.
Total Height	67½ in.	Gas Broiler	16¼x12½x10 in.
Height to Cooking Top	33½ in.	Coal Oven	18½x19x12 in.
Extreme Top	40x27¾ in.		

Four Top Gas Burners (Three Standard and One Giant)

Thatcher Twin-Fire Ranges

A range that burns both coal and gas is a great convenience in many homes. In the summer time one may use the gas section only and thus have a cool kitchen, while in cold weather a coal fire in the range is a great comfort to the housewife, providing genial warmth to the room in which she spends much of her time.

A Compact Range

In spite of the fact that the Thatcher Twin-Fire combines two complete ranges in one, its compact dimensions permit it to be used in the smallest kitchens. Its extreme width is only 40 inches—depth 29¾ inches—and height 67½ inches.

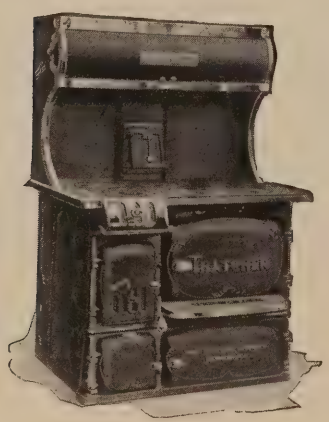
A Beautiful Range

The Twin-Fire is well proportioned and is beautifully finished in gray porcelain enamel with white porcelain enamel splasher and drip pan. An occasional rubbing with a damp cloth keeps it immaculately clean and as the enamel is in three coats, baked on at a high temperature, it preserves its original lustre for years.

Note These Distinctive Features

Two, large ovens—a gas oven and a coal oven. Patented Waterback requires no extra space and heated by either gas or coal in a remarkably short time. Patented Pull Down Broiler Rack brings roast to convenient height. Foot Touch Oven Door Opener for lower oven—a great convenience when both hands are full. Automatic Lighter for gas burners. Closet for pots and pans under lower oven. Gas section and coal section entirely separate—two complete ranges in one—which may be used separately or at the same time as desired. Can be furnished on leg or cabinet base.

Write for copy of our booklet "Thatcher Ranges."



Thatcher Single Oven
Coal Range—No. 88

Thatcher Single and Double Oven Coal Ranges

The ovens are unusually large, so that meats or fowl may be roasted and a large baking of bread handled at the same time—all the baking and roasting being done quickly to perfection.

All Thatcher ranges are constructed to give the best and quickest results in cooking and even baking.

The best grade of gray iron is used, and every convenience, such as sanitary ash chutes, large and effective waterbacks, triangular revolving grates, smooth and neat appearance, and many more are scientifically embodied in Thatcher Ranges.



Thatcher "Geyser" Hot Water Supply Heater
Single charge of coal lasts from 12 to 15 hours. Made in four sizes—150 to 550 gallons capacity.

For further details and literature, write to: **THE THATCHER COMPANY, Newark, N. J.**

Welsbach Radiant Gas Heaters

Made by

WELSBACH COMPANY

Gloucester City, N. J.

BRANCHES:

New York	Cleveland	Providence
Chicago	Columbus	Washington, D. C.
Boston	Pittsburgh	San Francisco
St. Paul	Cincinnati	Philadelphia

See Page 423 for Storage Gas Water Heaters

See Page 468 for Electric Lighting Fixtures

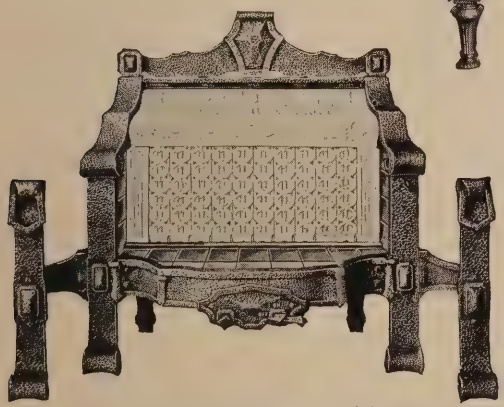
HEAT without ashes or smoke. An open fire on the hearth without the trouble of lugging fuel up from the basement. Heat—radiant heat—in an instant, any season, any hour, by merely turning the Self Lighter Key. This is what a Welsbach Radiant Gas Heater in the home means.



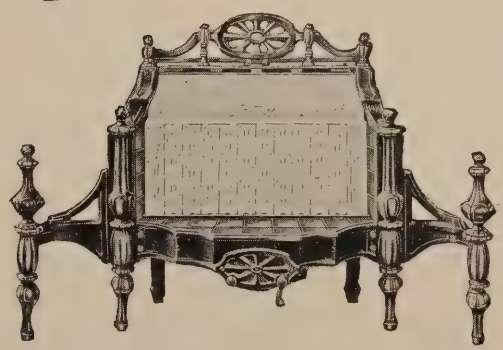
No. 37—Ten Glowers With Andirons, Wings, and Self Lighter Finish—Oxidized Brass

A beautiful model that either lighted or unlighted is an ornament to the hearth. A powerful heater that will quickly warm a room in zero weather. Gas consumption, about 35 cubic feet of artificial gas per hour—½ to ⅔ as much on natural gas. Dimensions, as illustrated: Width 32½"; Height 23"; Depth 11¼". Price with Andiron and Wings, as illustrated, $82.50. With Andirons only, $78.50. Standard Model, $65.00.

PRICES from $9.00 to $90.00, according to size, ornamentation and finish. Gas consumption remarkably low, owing to scientific design and construction. Nine exclusive features giving greater comfort, efficiency and economy. A Welsbach Radiant Gas Heater for every type of house from the modest cottage to the mansion.



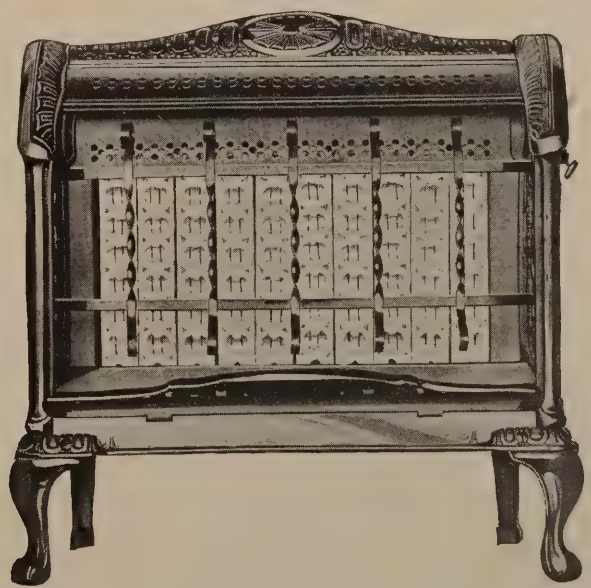
No. 43—TEN GLOWERS, with Andirons and Self Lighter. Hammered Brass or Wrought Iron Finish. Gas consumption same as No. 37. Dimensions, as illustrated: Width 32½"; Height 23"; Depth 11¼". Price: With Andirons, as illustrated, Hammered Brass $63; Wrought Iron $57. Standard Model, Hammered Brass $50; Wrought Iron $45.



No. 45—TEN GLOWERS, with Andirons and Self Lighter. Distinctive in character and design. An old English Model with dull, Old Brass finish. Gas consumption same as for No. 37. Dimensions same as for No. 43. Price with Andirons, as illustrated, $69.50. Standard Model, $55.00.



No. 41—TEN GLOWERS. Finish Black Crystal. Same gas consumption and heat giving capacity as Heaters illustrated above but simpler in design and lower in price—only $20. Dimensions: Height 21¼"; Width 18½"; Depth 9½".



No. 27—TEN GLOWERS, with Self Lighter. Dimensions, as illustrated: Height, 19½"; Depth, 9"; Width, 21¾". Prices, as illustrated: Oxidized Brass, $30.00; Black and Verde, $25.00. With Andirons: Oxidized Brass, $38.50; Black and Verde, $31.00.

For further details and literature, write to: **WELSBACH COMPANY, Gloucester City, N. J.** or to nearest branch

HOLMES *concealed* BEDS

Made by

Holmes Disappearing Bed Company, 117 Madison Street, Woodstock, Ill.
Concealed Bed Corporation, 58 E. Washington Street, Dept. 602, Chicago, Ill.
Distributors for Marshall & Stearns Co. and Holmes Disappearing Bed Co.



Model No. 39-B

Holmes Beds are the original concealed beds. But since the first Holmes Concealed Bed was manufactured—over twenty years ago—we have made hundreds of improvements, reflected in the various types shown on these pages. The line is very complete, in beautiful, practical designs. All Holmes beds are of heavy seamless steel tubing and furnished in full size 54 in.; ¾ size, 48 in.; single or twins, 39 in. or 36 in. Holmes Beds are recognized as the most simple in construction, having fewer moving parts and being perfectly counter-balanced. When the bed is down in sleeping position it is just as solid and secure as any standard set-up bed. Holmes Concealed Beds are the only beds of this type designed to permit the use of full coil springs or box springs. Holmes Coil Springs extend the entire length and width of the bed. There are 120 full spiral coils made of retempered Premier wire—easy to keep clean—and vermin proof. The Holmes Roller Bed is the only one that must have coil springs. Any of the other beds may have either coil, box or fabric. Fabric springs take one-piece foot ends. Coil or box springs take two-piece foot ends. Holmes Beds are regularly finished in American Walnut or Mahogany. The finish is applied by an exclusive process that leaves a glossy, smooth surface, easily kept in good condition, and above all clean and sanitary. Other finishes or designs can be supplied when specified.



Model No. 39-B

HOLMES ROLLER BED

Model 39 B. Sq. tubing, cane panels and requires less floor space in storing than any other make.

This type of Holmes Concealed Bed not only saves floor space, but is rolled about so easily that it can be kept in any part of the home desired. It can be rolled into a closet, moved into a corner and concealed by a canopy or drapes, or it can just as easily be rolled into another room or into a hall where there is space for concealment. It is a full size 54-in. standard bed, complete with head and automatic foot end, and equipped with special highly resilient full coil springs, sanitry, vermin-proof, easily cleaned. A specially designed safeguard bumper prevents any possibility of damage to furniture, walls or woodwork. Specially designed patented double ball-bearing, highly polished, perfectly beveled 4½-in. hardwood maple rollers, which operate easily and smoothly, are used to prevent floors from being marred or the carpets and rugs from being damaged. These rollers will never wear out. An exclusive feature is the Holmes automatic lock which prevents the bed from "jack-knifing" or folding over on top of the sleeping surface when the bed is down. This bed is handsome in design, a fine piece of furniture, with a beautiful, durable finish—sanitary, easy to operate, clean, convenient and comfortable as any standard bed. Closet space required on straight run in: Depth 5 ft.—width 2 ft. 2 in. door minimum, height 6 ft. 8 in. or 7 ft.



Model No. 19 S-B

HOLMES "ROLL-OUT" RECESS BED

(Model 19 S-B)

This type of Holmes Concealed Bed is especially designed for installation in rooms where deep closet space is not available. With the exclusive Holmes roll-out feature, which automatically causes the bed to advance 14 inches when lowered, the head of the sleeper in out in the room—not back in the closet. It is fastened directly to the floor, in a shoe on each side, and pulls straight down into the room. There is no revolving mechanism of any kind. It will not damage floors, rugs or carpets by rolling in one place. Saves floor space—closet space required for full size 54-in. bed: Depth, 18 in. inside of door to plaster (in clear), width, 5 ft. using 2 ft. 6 in. doors, height, 7 ft. If it is not possible to build even an 18-in. closet into the wall, the closet can be built out in the room, giving effective concealment. Canopies or drapes may also be used effectively with this type of bed.

We also make a complete line of standard attached recess beds, without the new patented "Roll-Out" feature, which require the same closet space as above, except that they may also use 6-ft. 8-in. doors. Specifications and full dimensions sent on request.

For further details and literature, write to:

Holmes Disappearing Bed Company, 117 Madison Street, Woodstock, Ill.
Concealed Bed Corporation, 58 E. Washington St., Dept. 602, Chicago, Ill.
Distributors for Marshall & Stearns Co. and Holmes Disappearing Bed Co.

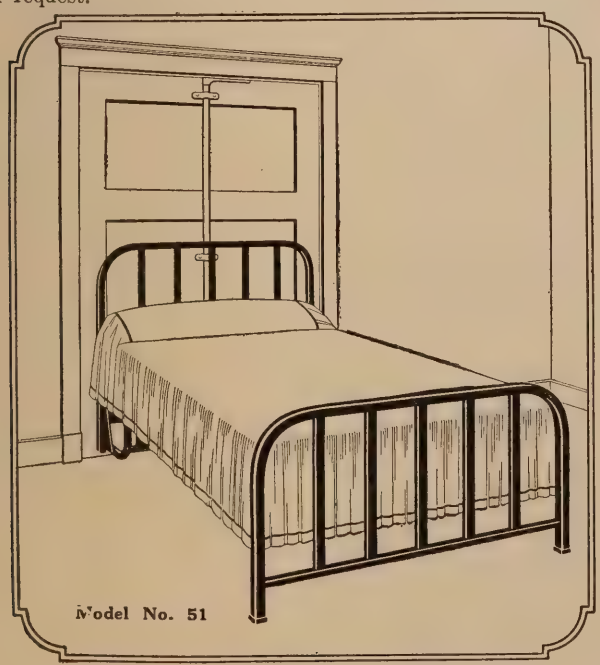


Model No. 45

Holmes Twin Pivot Center Door Bed
(Model No. 41-B)

This twin bed installation is typical of the beautiful effects which can be secured by using Holmes Beds. Note the one-piece foot ends and absence of operating mechanism on head ends. The standard two-piece foot end with full coil springs, using steel standard bar which carries combined weight of door and bed, may also be used in this installation. The mirrored door between allows access to closet, whether beds are up or down. Doors of various designs may be used for concealing the twins, or the walls may be paneled. The center door in this twin installation is pivoted off center and allows access to the closet at all times. When the closet is enlarged for use as a dressing room, with bathroom adjoining, the fact that the door can be opened and closed regardless of position of beds is especially important. Holmes twin bed installations require less space than others and close the opening back of beds.

Our Service Department will furnish full details—dimensions on request.



Model No. 51

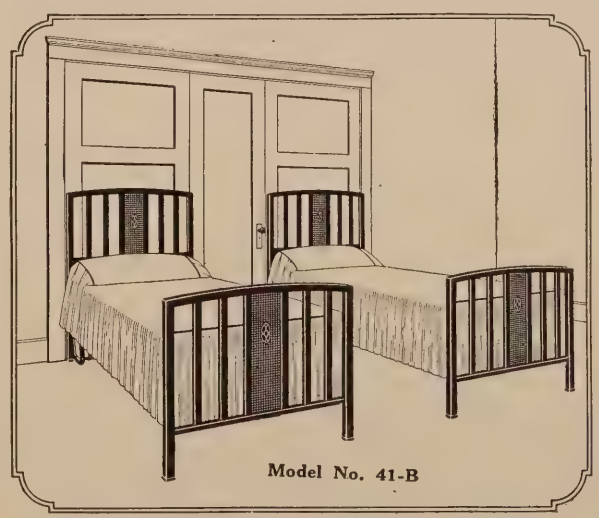
Holmes Two-Door Pivot Bed
(Model No. 45)

This is an exceptionally good looking, comfortable bed. The spread hides what little mechanism there is. Closet door can be opened or closed when bed is in sleeping position, allowing access to closet and when closed prevents any draft on sleeper. It may be installed either with or without the steel standard bar, standard bar being used when 1⅜-in. French or mirrored doors are used, thus eliminating all strain from door and insuring against warping or sagging of door. The standard bar carries the weight of bed and door and makes a perfect installation from an engineering standpoint. Doors of any thickness can be used. If no steel standard bar is used, a specially designed steel angle is fastened across the door where it cannot be seen. The bed is attached to this angle and the weight distributed over entire door. Doors 1¾-in. thickness are required.

An exclusive feature on all Holmes pivot beds is that they are easily adjusted without removing bed from opening, thus avoiding extra expense if building settles.

Closet space required on full size 54-in. bed; depth 24-in. inside of door to plaster (in clear); height 6-ft. 8-in. or 7-ft. doors.

If pivot bed without standard is used 2 2-ft. 6-in. doors may be used for full size bed.



Model No. 41-B

Marshall & Stearns Oscillating Portal Bed
Model No. 51

This type of concealed bed has given universal satisfaction for many years because it can be used to increase the room efficiency of any type of home, whether it be large or small. Concealment can be made so perfect that the most critical eye is deceived. A handsome buffet, book-case, desk or large mirror may be attached to the front of the bed panel. When the bed is in sleeping position, it is as refined in appearance and just as good looking as the most exclusively designed set-up bed, and just as comfortable to sleep in. The bed can be pivoted into the room and lowered into place by a child, it works so easily. It has no complicated head and foot operating mechanism. If the bed is used in connection with a dressing room or storage closet, the bed may be turned slightly to allow access. This can be easily done when the bed is down—it does not have to be upended.

Closet Space Required on full size 54 in. bed: Depth 2 ft., Width 5 ft. 4 in., Height 6 ft. 8 in. or 7 ft.

For further details and literature, write to:

Holmes Disappearing Bed Company, 117 Madison Street, Woodstock, Ill.
Concealed Bed Corporation, 58 E. Washington St., Dept. 602, Chicago, Ill.
Distributors for Marshall & Stearns Co. and Holmes Disappearing Bed Co.

MURPHY IN-A-DOR BEDS

Manufactured By

THE MURPHY DOOR BED CO.

OFFICES AND DISPLAY ROOMS IN ALL PRINCIPAL CITIES

22 W. Monroe St., Chicago
315 N. 10th St., St. Louis
714 Terminal Sales Bldg., Seattle
1140-42 Hanna Bldg., Cleveland
1534 Blake St., Denver
7th Floor, Kresge Bldg., Detroit, Mich.
205 O'Connor St., Ottawa, Can.
Crocker Bldg., San Francisco
1807 S. Main St., Los Angeles
153 Peel St., Montreal, Can.
1919 Pacific Ave., Dallas, Tex



This Trade Mark on All Murphy Beds.

19 W. 44th St., New York
1309 Keenan Bldg., Pittsburgh, Pa.
Neff-Stiles Bldg., El Paso, Tex.
234 Columbia Bldg., Miami, Fla.
2301 Main St., Houston, Tex.
1713 W. End Ave., Nashville, Tenn.
319 Dryades St., New Orleans, La.
225 2nd Av., S., St. Petersburg, Fla.
1114 Grand Ave., Kansas City
204 Peach Tree Arc., Atlanta, Ga.
New England Furn. & Carpet Co., Minneapolis

Products

The principal product of this Company is the famous MURPHY IN-A-DOR BED, which is made in various types and sizes to meet all installation conditions. In addition, this Company makes Steel Kitchen equipment —Cabinets, Refrigerators and Ironing Boards.

Literature and Technical Service

Literature explaining in detail each product can be had for the asking, from any of the offices listed above. A Technical Service Department is maintained to co-operate with you—you should take advantage of this service and get the most out of MURPHY Equipment.

Why Every Home Should Have a Murphy Bed

That every home has a need for a MURPHY BED has been proven by thousands of installations in homes of all sizes. These needs are many and varied—the sum total of all of them are, fundamentally, economic.

The average home costs about one thousand dollars a room to build. The size of a home is determined by the number of sleeping rooms required by the family which is to occupy it—these with the kitchen, dining room and living room fixes the number of rooms.

If it were not for this cost of a thousand or more dollars per room, every lover of a home would have some one room in addition to those actually required. This "other room" might be a Sun Parlor, Den, Children's Room, Sewing Room, or a Sleeping Porch.

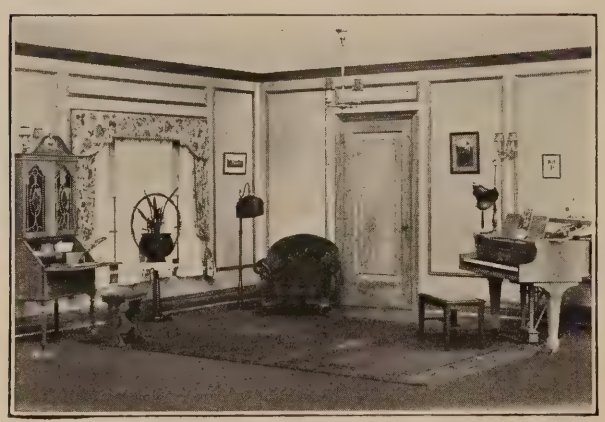
A bed room equipped with the ordinary bed is used but eight hours of the twenty-four—the other sixteen hours it is unoccupied and serves only as a store room for the furniture. Properly equipped with a MURPHY IN-A-DOR BED, a bed room can be made available twenty-four hours of the day. In this way another room can be added to the home at no additional cost—no furnishing, decorating, or heating expenses and last, but not least, no additional household care.

Here, then, is proof that you need not forego that other room. When you build, prepare for a MURPHY IN-A-DOR BED—it is concealed in an ordinary closet behind an ordinary door.

The Murphy In-A-Door Bed

The MURPHY IN-A-DOR BED differs from the ordinary bed only in that it is raised to a vertical position and pivots into a closet—it is made in the same standard sizes as the ordinary bed—is equipped with the same standard spring—therefore, furnishes the same sleeping comfort as a good ordinary bed. Its patented multiple spring balance and method of pivoting make its operation simple and easy—requires no more effort than moving a chair. Moving on its pivot clear of the floor, it requires no guiding—does not mar floors or woodwork.

Murphy Beds are made in a variety of designs and finishes.



"Another room" without the cost of building it. Perfect concealment behind an ordinary door.

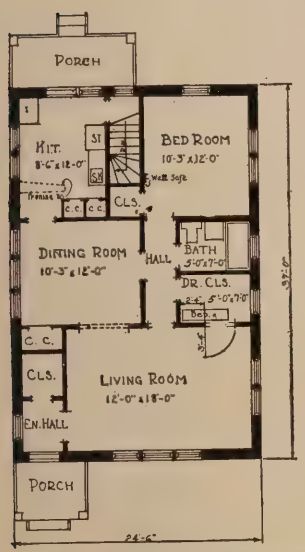


The housewife may use the same beautiful coverings on a MURPHY IN-A DOR BED as she does on the ordinary bed.

For further details and literature, write to: **THE MURPHY DOOR BED COMPANY,** 22 W. Monroe St. Chicago

Our Technical Service Department will help you add another room to your home at a saving of a thousand dollars, or more. This service for the asking—no obligation.

Below are two practical applications of MURPHY BEDS in homes.

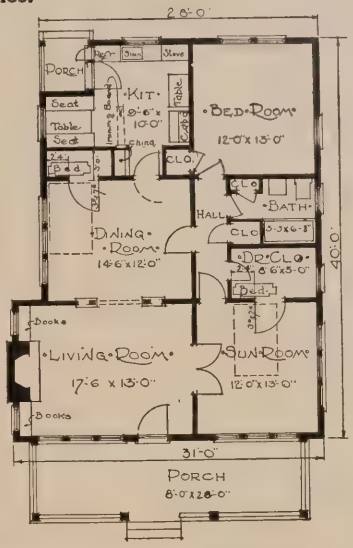


Plan No. E24-37

A four room bungalow with sleeping accommodations equivalent to five rooms. Here the MURPHY BED is used in the living room—can be used as a spare bed or for regular use, if desired. Note privacy of bath—plenty of closet room.

Plan No. E28-40

With the French doors to the living room closed, the sun parlor in this five room bungalow becomes a sleeping room with the same privacy as the bed room. In the daytime this room is available for other purposes. Another room without the cost of building. By placing a MURPHY in the closet off of the dining room, a spare bed is provided.





MURPHY IN-A-DOOR INSTALLATION NO. 1

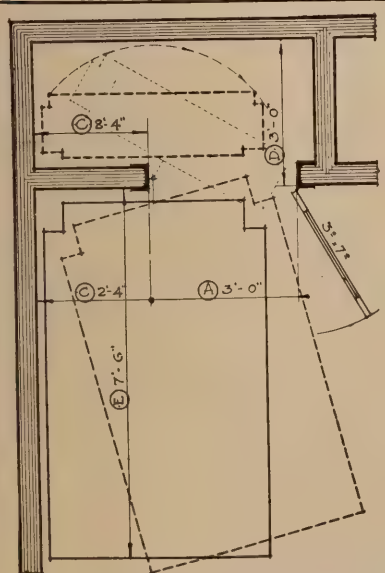
Showing position of door and the bed ready for use. Standard stock door. Door and bed independent of each other.



MURPHY RECESS INSTALLATION No. 13

Fastened to floor in shallow recess—lowers straight to floor, does not pivot. When on floor, ready for use, bed is projected forward so head, end is in line with door opening.

Note: When closet can not be provided, a canopy rod can be furnished which permits concealing bed behind draperies.



A standard full size bed 4'6" wide, 6'4" long — inside head and foot ends. Accommodates standard mattress.

Bed can be pivoted to either right or left jamb—provided there is sufficient bed pocket.

A—Door: width 3'0"
height 7'0"
See note below.

C—Bed pocket 2'4"

D—Depth of closet 3'0" inside plaster line to outside plaster line.

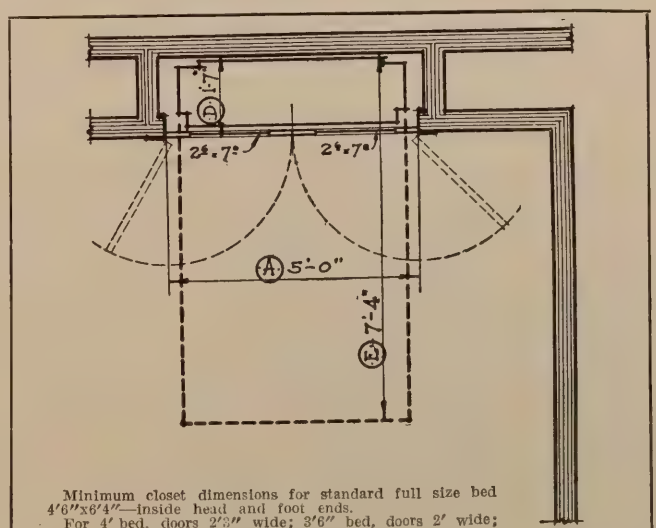
E—Bed clearance 7'6" wall to foot end of bed when lowered in room.

Door knob height 3'0".

Note: Beds under standard length may be furnished for doors under 7' high, not less than 6'8" high.

BED AND DOOR ON OPPOSITE JAMBS

Minimum closet dimensions for Murphy pivot bed.



Minimum closet dimensions for standard full size bed 4'6"x6'4"—inside head and foot ends.

For 4' bed, doors 2'3" wide; 3'6" bed, doors 2' wide; 3' bed, doors 1'9" wide.

A—Doors: width—two 2'6"
height 7'0"
For 6'8" door see Note Spec. No. 1.

D—Depth of closet 1'7"
inside to outside plaster line.

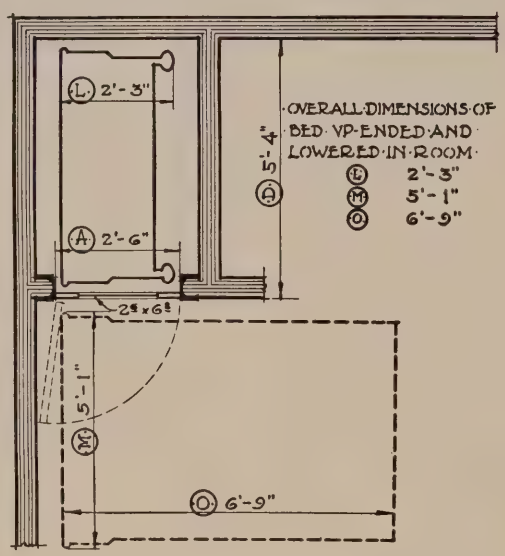
E—Bed clearance 7'4"
back of closet to foot end of bed.

For further details and literature, write to: **THE MURPHY DOOR BED COMPANY,** 22 W. Monroe St. Chicago



MURPHY ROLLER INSTALLATION NO. 12

Mounted on rubber casters, ball bearing. Can be installed in long, narrow closet or shallow, wide closet.



MURPHY ROLLER BED

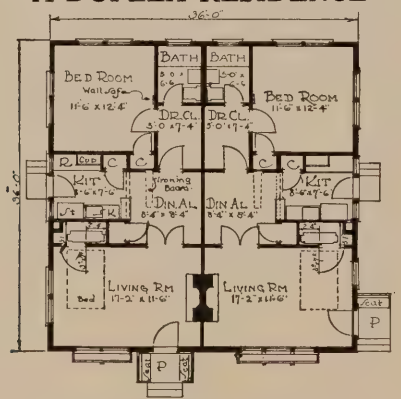
Minimum closet dimensions for Murphy roller bed

Note: When necessary to install roller bed in recess closet specify —door opening of 5'4" and depth of closet 2'6", inside plaster line to outside plaster line.

A standard full size bed 4'6" wide 6'4" long—inside head and foot ends.
Accommodating standard mattress.

A—Door: width 2'6"
height 6'8"
D—Depth of closet 5'4"
inside to outside plaster line.

A DUPLEX RESIDENCE



Here is one of the many suggestions for a duplex residence. The bed room and a MURPHY BED in each unit furnishes sleeping accommodations for four people. The front entrance of one unit is in front, the other on the side—besides increasing the privacy of each unit this arrangement lends itself to a better treatment of the exterior than if both entrances were in front. Our Technical Service Department has thousands of floor plan suggestions for apartment buildings on file—take advantage of this service.

Murphy Steel Ironing Board and Broom Cabinet (All-Steel Except the Board)

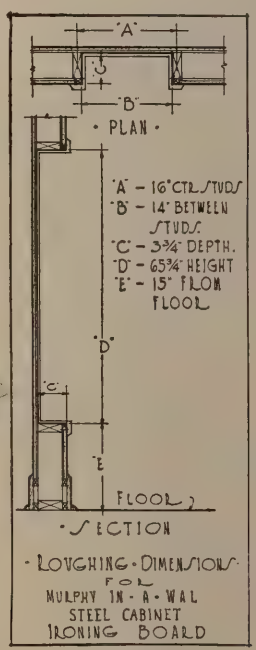
This all-steel In-A-Wal ironing board cabinet comes completely assembled with hardware and ready to set in place. The finish is of baked prime enamel, which allows the painter to finish to match woodwork or walls.

By special request, the cabinet can be finished in high luster white or French gray enamel for a small additional cost.



MURPHY IN-A-WAL IRONING BOARD AND BROOM CABINET

Six screws furnished fasten cabinet to studs

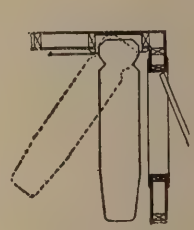


DETAILS

Details show standard partition construction and correct position of and method of fastening cabinet between 16-in. center studding.

The Murphy In-A-Wal cabinet can be installed in either new or old buildings, because a beveled flange projecting 1¾ in. forms the trim around the cabinet The actual dimensions of the cabinet are 14 in. wide; 65¼ in. high 4¾ in. deep. For roughing-in dimensions, see detail.

Corner Installation—Because of the very limited wall space in the modern, efficient kitchen of today, it is often necessary to place the cabinet in the corner. Where this condition prevails, the Murphy In-A-Wal Ironing Board will swing away from the wall for either the right or left-handed person. See sketch.



Detail of Corner Installation

The Out-O-Site-Bed for Apartments and Dwellings

OUT-O-SITE THE BED For Apartments and Dwellings

Built By

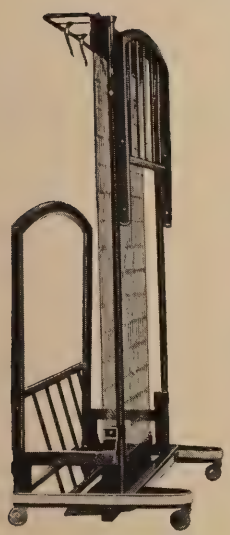
THE AMERICAN BED COMPANY

OUT-O-SITE THE BED For Apartments and Dwellings

18th and Park Ave.—St. Louis, U. S. A.

Representatives in All Principal Cities

Meets with Approval of Architects, Contractors, Owners and Users



Bed in closed position—2 ft. 1 in. x 4 ft. 6 in. x 6 ft. 5 in.

Utility and Convenience

The Out-O-Site Portable Disappearing Bed has great utility value as it can be moved to any part of the house with ease; through doors and between furniture. It can be used conveniently in case of emergency to accommodate overnight visitors. It offers a freer, more comfortable and healthful use for dwelling or apartment.

Economical

Out-O-Site Beds are economical in the use of valuable space; are reasonably priced. They require no special braced construction as with fixed pivot beds. The storage or closet space for the Out-O-Site Bed does not require a definite location with reference to the sleeping position of the bed. When folded it will fit any bed closet space designed for double bed, shown in the floor plans of all houses appearing in this catalog.

Design and Construction

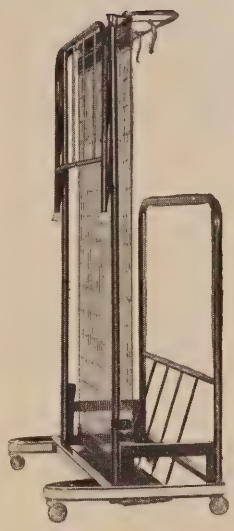
The design is attractive, harmonious and simple; with variation to suit any requirement for beauty and utility. Both design and finish are standardized; the construction is of $1\frac{5}{8}$ inch continuous post with ½ inch fillers. 1½ inch square post with 1½x½ inch rectangular fillers. Pillow rests are specially designed to permit free circulation of air when bed is closed.

Comfortable and Attractive

The Out-O-Site Bed unfolds large enough to accommodate two people. The heavy durable wire springs with steel bands on each side, are supported at the ends by resilient, helical steel springs—twenty-two at each end. The springs are responsive, instantly, to the slightest movement of the body. Bed accommodates any mattress four feet by six feet, one inch. (Mattress is not included.) Either the round post or square post model is correct and harmonious in proportions. The truck and casters, so necessary to portability, are not clumsy or unsightly. When the bed is lowered in position for sleep, there is nothing to distinguish it from a stationary metal bed.

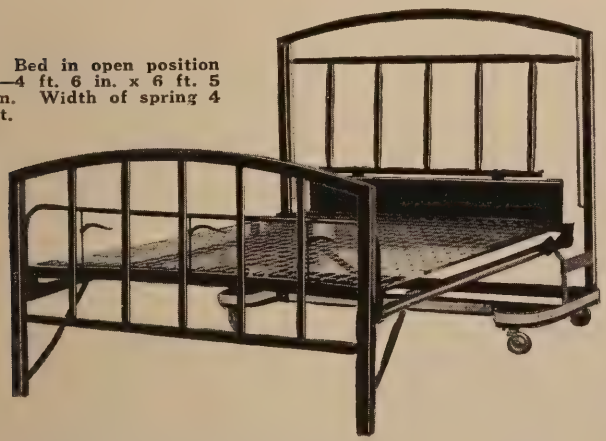
Closet Measurements

For a narrow type single door closet—height 6′ 8″, width 2′ 6″, depth 4′ 10″. Broad deep closet—single door (or pocket closet) height 6′ 8″, door width 3′, closet width, 4′ 10″, depth 2′ 5″. Broad type closet, double door, height 6′ 8″, door width 4′ 10″, closet depth 2′ 6″.



Bed in closed position—2 ft. 1 in. x 4 ft. 6 in. x 6 ft. 5 in.

Bed in open position—4 ft. 6 in. x 6 ft. 5 in. Width of spring 4 ft.



Bed in open position—4 ft. 6 in. x 6 ft. 5 in. Width of spring 4 ft.

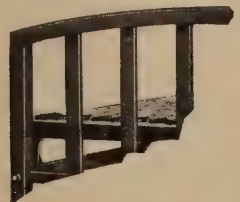


Out-O-Site Bed No. 26G

Designed with same features to be found in all Out-O-Site Beds, but with thought given to low cost. Has adjustable holders for mattress and bed covering. Posts are 1½ inch square tubing (head and foot); top rail 1½ inch square tubing; fillers, 1x½ inch. Finished in grained walnut. Is handsome and durable.

Out-O-Site Bed No. 26E

Rolls lightly and silently on swiveled rubber tired casters, raises and lowers easily with one hand, folding compactly for daytime storage. Head is $1\frac{5}{8}$ round tubing; fillers ½ and cross tubes ⅞ inch; foot $1\frac{1}{16}$ inch round tubing. Has adjustable holders to accommodate mattress and bed coverings of any thickness. Standard finish is rich walnut enamel.



The All-Steel Tubing

Posts, toprails and fillers are of standard steel bedstead tubing which are durable and smooth of finish.

The Casters

Are three inch on which truck of bed is mounted. Are oversize for greater ease and protection to floors and rugs while bed is being moved.





The Rubber Bumper Strip

Of live cushioned rubber, encircling frame of truck affording protection to furniture and woodwork.

For further details and literature, write to: **AMERICAN BED COMPANY,** **18th and Park Ave., St. Louis, U. S. A.**

"Roll-A-Way" Beds

And "Roll-Out" Recess Beds
Also "Du-O-Dor" Beds

Manufactured by

Roll-A-Way Bed Corporation

225 W. Ohio St., Chicago



Guest Service

"Get out the Roll-A-Way, I'm coming over." This is a request by friend or absent member of the family with which it is a pleasure to comply. Like magic a bed of unequalled comfort and of striking design may be rolled from its point of convenient concealment, and any room in the house becomes, in a twinkling, a guest room for the night.

Building Economy

The Roll-A-Way has met the demand for building economy. The aim of today is to give greater living efficiency to smaller area, and at the same time to preserve comfort and convenience. This bed *saves a room,* or many rooms, if desired, by giving any room the qualities of a bed room at night without interfering with its normal utility. Moreover, space, doors, trim and materials may be saved in any home construction.

Economy of Maintenance

There is no object in maintaining needless extra rooms. A home with Roll-A-Way efficiency is a convenient easily kept living unit. Much household labor is eliminated.

Greater Sleeping Comfort

There are additional joys in Roll-A-Way slumber as it may be had at the window or even on the sleeping porch by merely rolling the bed to the desired spot and letting it down for use.

Sunning and Airing

The bed may also be rolled to the window where the sunshine can strike it, making it fresh and wholesome.

Permanent Usage

There is no furniture which makes our bed look out of place, and when down for use it presents an appearance which fits into the scheme of the best furnishings. It is not merely an "extra" bed—members of the family may sleep continuously in the large airy living room.

The 'Home Bed'

This is truly "the bed for the modern home," combining beauty, economy, convenience and profound comfort.

Quality at Moderate Price

Our prices are direct-from-the-factory. Our values are unexcelled.

For further details and literature, write to: **Roll-A-Way Bed Corporation** 225 W. Ohio St. CHICAGO



Construction

Material—Steel throughout. No breakable castings.

Frame—Securely attached to springs comprising one secure and substantial unit.

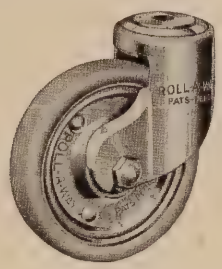
Bed Ends—Made of 1½-in. square tubing with ornamented steel (imitation cane) panel in grained wood and enamel finishes.

Truck—Special patented feature. Felt bound continuously around the truck, protecting bed, furniture and trim. The dimensions and design are such as to carry the bed safely and in perfect balance.

Equipment—Helical tie open box coil springs superbly comfortable and giving the proper support to the body in the attitude of rest. They will last a lifetime.

Operation

Operates with the ease of gesture. A child can manage it.



Caster

The Roll-A-Way caster is without peer on the market, being sold extensively for use on articles where high-grade casters are required. It is of large diameter and will roll over rugs without disturbing them. It is also constructed of the finest steel; ball bearing at axis and swivel and equipped with hardened races. The tire is a composition of rubber, duck, fibre and other ingredients designed to prevent rotting and which will protect the finest floors. It is easy and noiseless in its operation.

Installation

It is unattached to door, trim or wall and is easily assembled from its simple shipping parts.

Wall Space

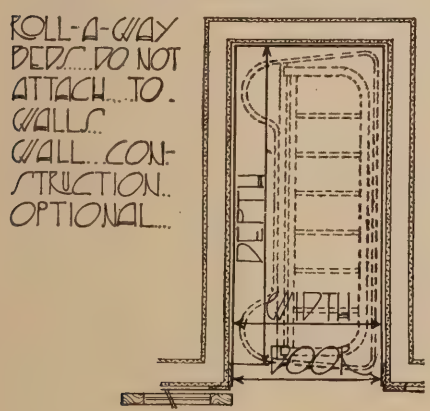
None required. It is not necessary to move or displace furniture for the operation of the bed.



Builders Service

Builders are invited to submit their preliminary floor plans to our technical department who will gladly verify specifications and make recommendations for the most economical and convenient installation.

Roll-A-Way Installation No. 1



To Architects and Builders

All measurements on this page are minimum.

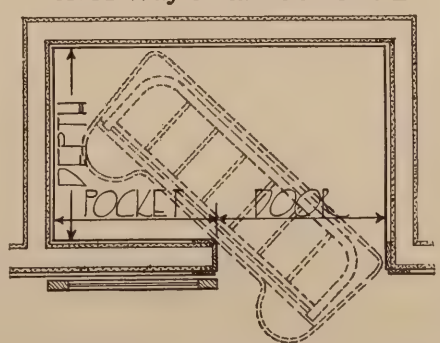
All measurements are computed at baseboard.

All closet floors should be on the same level and of same finish as floor in room.

When storage closet door is built in *corner* of the room, the closet door should be hinged to entirely clear door opening, or, a door used two inches wider than specified.

Architects are invited to submit to our technical department the preliminary floor plans for verification of specifications or recommendations.

Roll-A-Way Installation No. 2



SIZE OF BED	Door	Width	Depth
Double	2′4″ x 6′8″	2′4″	5′0″
Narrow Double	2′4″ x 6′8″	2′4″	4′6″
Single	2′4″ x 6′8″	2′4″	4′0″
Twin	2′4″ x 6′8″	2′4″	3′6″

SIZE OF BED	DOOR 3′0″		DOOR 2′10″		DOOR 2′8″	
	Pocket	Depth	Pocket	Depth	Pocket	Depth
Double	2′ 3″	2′9″	2′5″	2′11″	2′7″	3′ 1″
Narrow Double	1′10″	2′7″	2′0″	2′ 8″	2′2″	2′10″
Single	1′ 4″	2′4″	1′6″	2′ 4″	1′8″	2′ 6″
Twin	0′11″	2′4″	1′1″	2′ 4″	1′3″	2′ 4″

SIZE OF BED	DOOR 2′6″		DOOR 2′4″	
	Pocket	Depth	Pocket	Depth
Double	2′ 9″	3′3″	2′11″	3′ 5″
Narrow Double	2′ 4″	3′0″	2′ 6″	3′ 2″
Single	1′10″	2′8″	2′ 0″	2′10″
Twin	1′ 5″	2′6″	1′ 7″	2′ 6″

For further details and literature, write to: Roll-A-Way Bed Corporation 225 W. Ohio St. Chicago, Ill.

"White" Door Beds and Space-Saving Conveniences

Manufactured by

THE "WHITE" DOOR BED COMPANY

130 North Wells Street, Chicago, Ill.

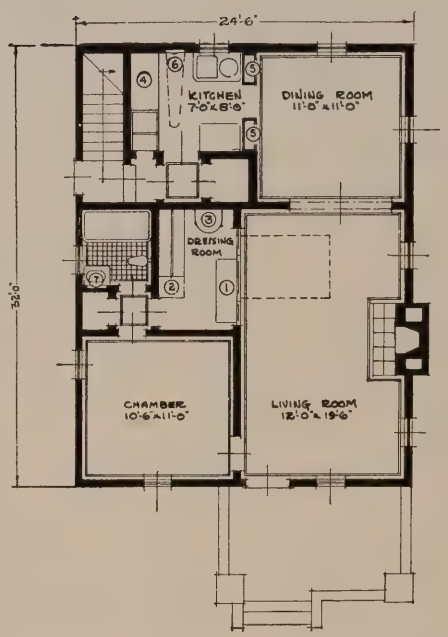
New York: 5609 Grand Central Terminal Bldg.
Sales Agents in all Principal Cities

Products

"White" Door Beds; Dressing Cabinets; Dressing Tables; Medicine Cabinets; Built-in Ironing Boards; Kitchen Cabinets; China Cabinets; Buffet Kitchen Cabinets; Kitchenette Ranges.

White "Efficiency Homes"

This new plan of home building offers the ideal solution of the home-builder's problem of how to build economically and yet obtain the greatest possible comfort. Through the use of "White" Door Beds and Space Saving Conveniences advantages of a 6 or 7-room home are obtained in a 4 or 5-room bungalow at a considerably lower cost.



Four rooms with five room efficiency. (1) "White" Door Bed. (2) Dressing Cabinet. (3) Dressing Table. (4) Kitchen Cabinet. (5) China Cabinets. (6) Ironing Board. (7) Medicine Cabinet.

The housewife's labors are materially lessened not only because of the smaller house to care for, but also through the aid of convenient space saving devices that have been designed for her use.



A single motion brings it into place ready for use.

Advantages of the "White" Door Bed

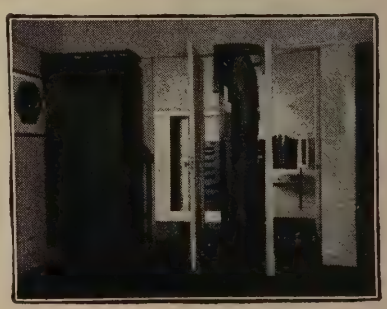
The "White" Door Bed is in every respect a *real* bed, mechanically adjusted to smaller space. In comfort, appearance and durability, it is equaled only by the finer type of stationary beds. Made in standard sizes with regulation height head and foot ends.

Perfectly Balanced—The convolute spring balance, an exclusive feature (see next page), balances any weight from 24 to 200 lbs. Bed can be released at any position and will not close up or drop.

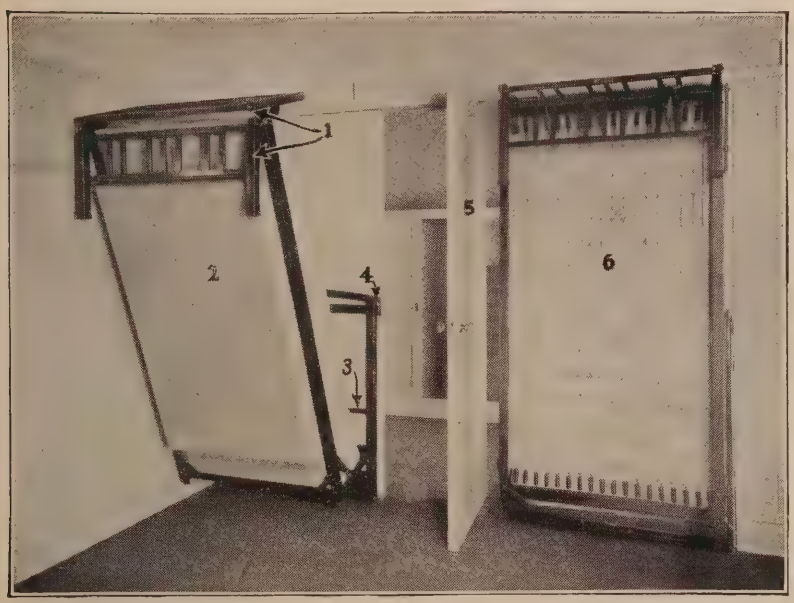
Easy to Operate—It can be raised or lowered with a single effortless motion. No pulling or adjusting of legs or headboard. Legs lock automatically when bed is lowered.

Simple—It is built with fewer parts than has been possible before. No complicated mechanism; no exposed springs to catch dirt and dust; no movable parts to tear the bedding.

Affords Perfect Concealment — When bed is in use in the room, the opening is completely closed, preventing drafts and concealing the dressing room from view at all times. Easy ac-



View in living room with beds up, one partly turned. Shows easy accessibility to dressing room behind.



Exclusive Points of Superiority of the "White" Door Bed

1—Automatic locking device holds legs rigid and secure. No danger of collapsing. Legs swing into position when bed is raised or lowered. No pulling or adjusting.
2—Full box spring, luxurious and comfortable, set in side rail same as standard metal bed. This is standard equipment.
3—Sliding head board operates on easy moving rollers and holds pillows in position.
4—Bed is held by its own weight in socket plates on each side of door and may be instantly lifted off door if desired.
5—Panel door can be opened or closed when bed is either up or down, allowing entrance to dressing room at all times.
6—Twenty-year guarantee fabric spring with which bed is equipped if box spring is not desired. Coil spring also may be had.
7—(See below) Bed operates on rollers inside head posts.
8—(See below) The Convolute Spring gives perfect balance, easy operation, and improved appearance.

cess may be had to the dressing room whether the bed is in an upright position or down in the room.

Reduces Building Costs—"White" Door Bed installations afford better room arrangements. Bed requires less space when down in the room as well as less closet space when upright.

Easy to Install—It requires only two small bed plates to be screwed on to the door, upon which the bed is secured by its own weight and from which it may be instantly removed, if desired. Either a full size or a twin size bed may be hung on the same door without any adjustment.

Comfortable—It is regularly equipped with a box spring. Made for restful sleep. May be had also with either coil or fabric spring.

Attractive—It may be had in two distinctive designs, finished in American walnut, mahogany or any enamel color to match any decorative scheme.

Light—It is constructed of square steel tubing so light that a woman can handle it easily.

Guaranteed—Rigid construction. Substantially built for lasting service. Guaranteed for 20 years.

Convolute Spring Balance—An Exclusive Feature—An entirely new principle in disappearing bed construction has been applied in "White" Door Beds. Powerful convolute spring balances are used which will balance any weight ranging from 24 to 200 lb.

Balances operate parallel with the door, relieving door strain and thus cannot warp the door.

The bed is perfectly balanced and will remain in any position without falling or closing up. The life of the balance is practically everlasting.

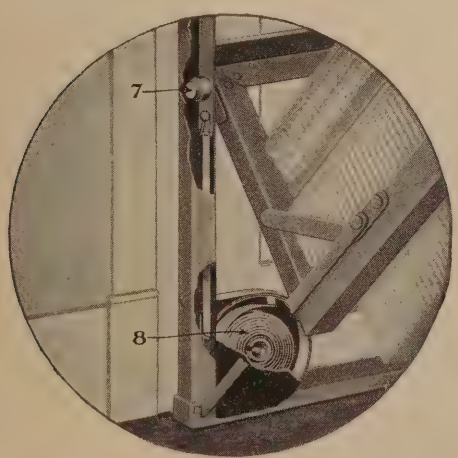
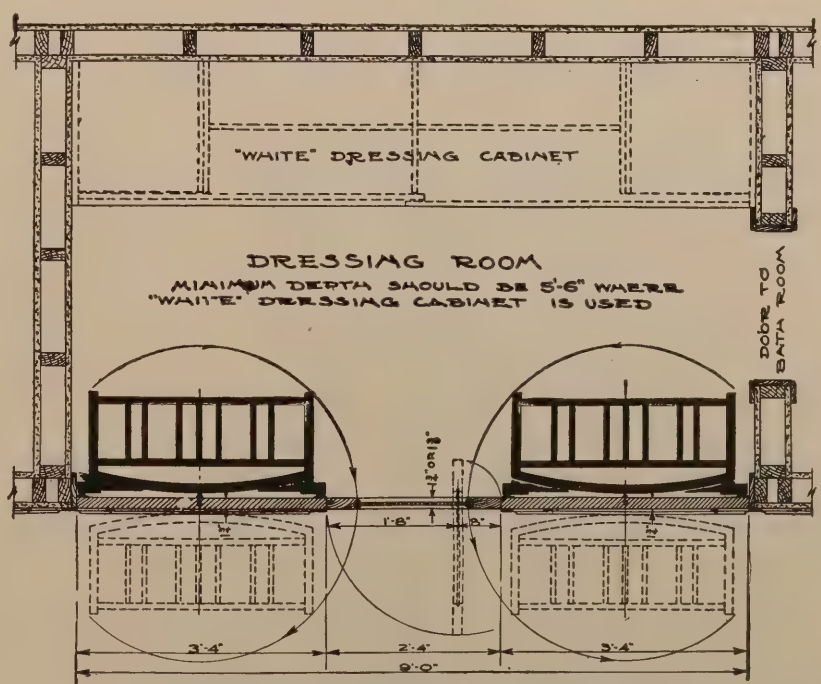


Diagram view of the Convolute Spring Balance used on "White" Door Beds. Holds bed in any position without falling.

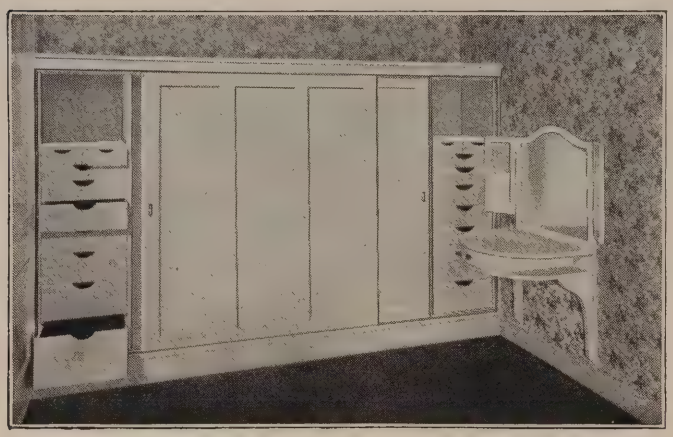


"White" Twin Bed Installation and Dressing Room
Panel between bed doors gives access to dressing room at all times. Doors should be 6 ft. 11½ in. high. Beds extend 6 ft. 6 in. out into room when down in place.

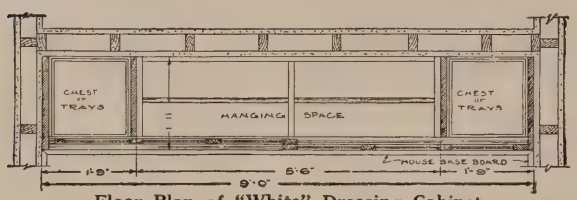
For further details and literature, write to: **THE "WHITE" DOOR BED COMPANY,** 130 North Wells St. Chicago, Ill.

"White" Space-Saving Conveniences

"WHITE" DRESSING CABINET — Combines in one compact unit all the advantages of a closet and a chiffonier. Consists of two hat compartments, 2 tray sections of 9 trays each and a large section for the hanging of clothes. Length over all, 9 ft.; height, 5 ft. 6 in.; depth, 22½ in. Cabinet with one section of trays is 7 ft. long. Can be set up by any carpenter. Finished with coat of lacquer primer.



"White" Dressing Cabinet and Dressing Table
Two beautiful and compactly designed space savers

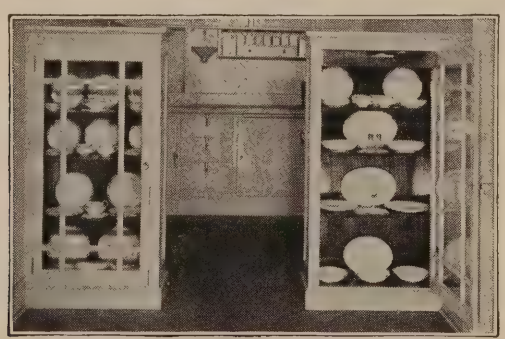


Floor Plan of "White" Dressing Cabinet

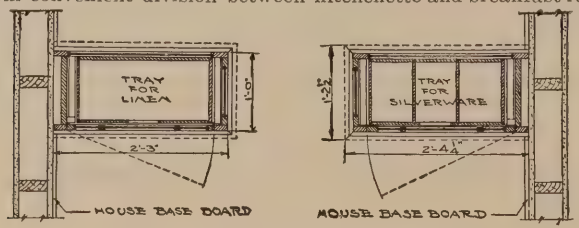
"WHITE" DRESSING TABLE—An attractive space saving fixture with 2 wing mirrors. Attached to the wall. Height, 3 ft. 11 in.; width over all, 3 ft. 4 in.; depth, 1 ft. 8 in. Finished with coat of lacquer primer.

"WHITE" CHINA CABINETS—These cabinets have shelves for glass and chinaware and 2 trays for linen and silverware.

Width, 2 ft. 4½ in.; height, 4 ft. 6 in.; depth, 14½ in. Finished with coat of lacquer primer.

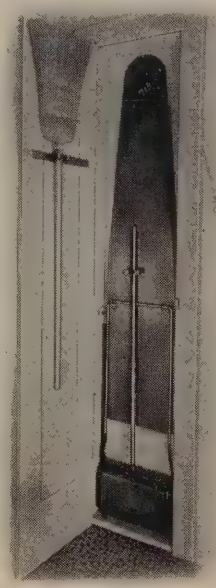


"White" China Cabinets
Form convenient division between kitchenette and breakfast room

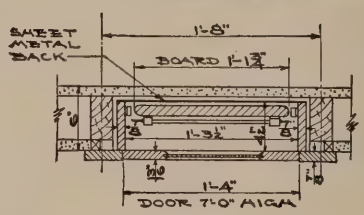


Floor Plan of "White" China Cabinets

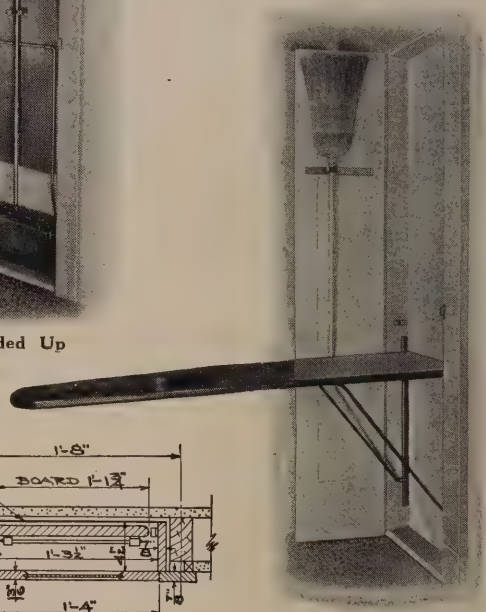
"WHITE" IRONING BOARD AND CABINET—Compact and very convenient. Folds into cabinet 4½ in. deep and is concealed by door 7 ft. high, 1 ft. 4 in. wide and $\frac{13}{16}$ in. thick. Ironing board is 5 ft. 5 in. long and 14 in. wide, tapering down to 8 in. Can be built in between studdings 20 in. center to center. Finished with coat of lacquer primer.



Folded Up



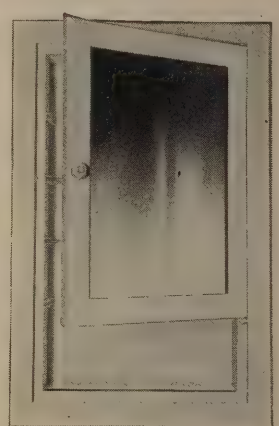
Floor Plan



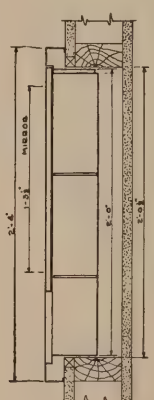
Open for Use

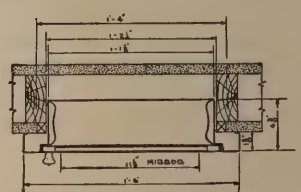
"White" Built-in Ironing Board and Cabinet

"WHITE" STEEL MEDICINE CABINET—This attractive all-steel cabinet is equipped with two adjustable plate glass shelves and open comb and brush shelf with plate glass bottom. Door has removable plate glass mirror 12x16 in.; concealed hinges, white porcelain knob and friction catch. Cabinet is 18 in. wide, 28 in. high and 4½ in. deep and builds into wall opening 14¼ in. wide and 24½ in. high. High grade white lacquer finish.



"White" Medicine Cabinet

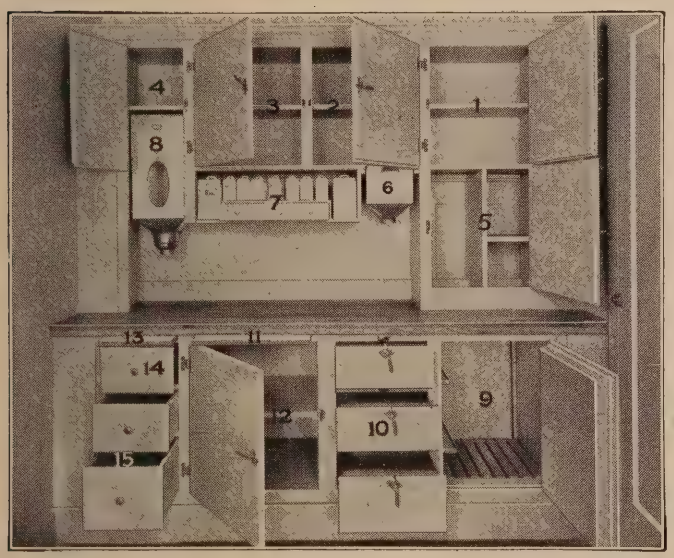




Cross Sectional Plans of "White" Medicine Cabinet

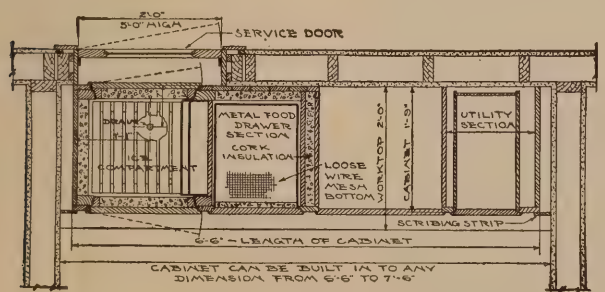
For further details and literature, write to: THE "WHITE" DOOR BED COMPANY, 130 North Wells Street, Chicago, Ill.

"White" Kitchen Cabinet and Refrigerator—The finest kitchenette fixture made, combining refrigerator, work table and pantry. Designed to be placed directly against the wall. Has receiving door for delivery of packages from outside, a refrigerator at either right or left side with door for rear or end outside icing, and with the accessories listed under illustration below. Comes in 3 sections ready to be installed. Over-all height, 7 ft.; depth, 24 in.; length, 6 ft. 6 in. adjustable to 7 ft. 6 in. Finished with one coat of lacquer primer.



"White" Kitchen Cabinet and Refrigerator

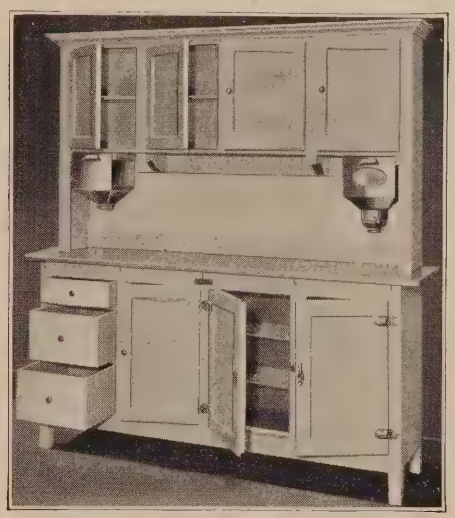
1, 2, 3, 4. Storage space for packages, groceries, canned goods, etc.
5. Receiving door compartments through which parcels are delivered.
6. Sugar bin, holding ten pounds of sugar.
7. Coffee, tea and spice jars, with drawer for kitchen cutlery.
8. Flour bin with sifter, window and improved filling device.
9. Refrigerator insulated with 2 in. of cork, specially designed for ice economy. Iced through insulated door at rear or end. Small shelves on side for milk, butter or fruits.
10. Food compartment of refrigerator with 3 metal drawers. Drawers have wire bottoms, permitting ready circulation of refrigerated air, and operate on metal slides—cannot tilt.
11. Dough board.
12. Storage space for pots, pans and cooking utensils.
13. Bread board.
14. Metal bread box, with sliding cover, protects contents and keeps them fresh.
15. Two drawers, serving as additional storage space.



Floor Plan of "White" Kitchen Cabinet and Refrigerator

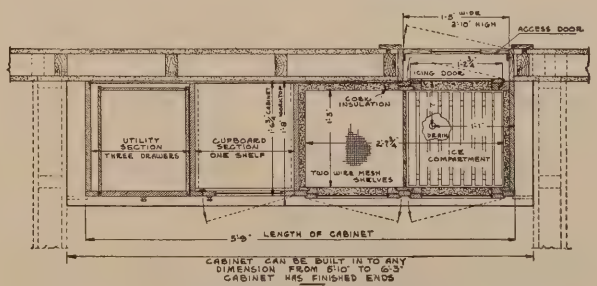
"White" Challenge Kitchen Cabinet

An economical unit for the kitchen, comprising pantry, refrigerator, work table and storage cabinet, all in one. Designed to be placed directly against the wall and can be had with refrigerator at right or left side with rear, end or front icing door. Refrigerator section has 100 lb. ice capacity and food compartment with 2 wire shelves. Has 1 in. thick cork insulated walls lined with galvanized iron.



"White" Challenge Kitchen Cabinet

Cabinet is 6 ft. 6 in. high overall and 5 ft. 9 in. long. Built of clear white wood finished with one coat of lacquer primer only. Top section is 42 in. high and 11 in. deep. Contains flour bin with sifter, sugar bin and 4 storage compartments. Work top is made of maple, 6 ft. 3 in. long and 1 ft. 8 in. deep. Base section is 1 ft. 6¾ in. deep and 36 in. high.



Floor Plan of "WHITE" Challenge Kitchen Cabinet with Door for Rear Icing

Literature

Descriptive Catalogue "WD97"—Complete details and illustrations of the "White" Door Bed and Space Saving Conveniences. Specifications and floor plans of many types of installations.

Let Us Co-operate

Our architectural department and agents will co-operate to the fullest extent with home builders. We will adapt "White" products and the "White" efficiency idea to any project. Floor plans, estimates and specifications will be furnished, entirely without fee or obligation.

Craftex—A Permanent Wall Finish

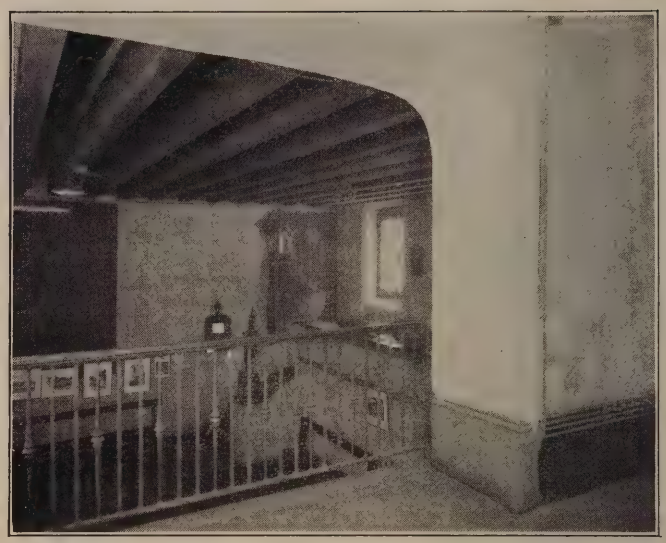
CRAFTEX COMPANY

146 Summer St., Boston, Mass.

101 Park Ave. New York | 220 So. State St. Chicago | 726 Murphy Ave. Atlanta | 6843 Scanlon Ave. St. Louis



Handled boldly, or in restraint, the Craftex wall is strikingly individual. Textured by hand, no single square inch exactly duplicates another or repeats a pattern. Craftex achieves perfect harmony without concession of interest.



And this in a wall finish which is no less durable than beautiful, which is washable, and upon whose textured surface the common mishaps which mar the walls of even the best regulated homes leave no noticeable impression.

Products

Craftex a Plastic Paint Wall Finish.

Also Lacquersize, a Size for use over Craftex; Craftcoat, a glaze for use over Craftex and Lacquersize.

Craftex

Craftex is a plastic paint that is applied with a brush to any surface to which oil paint can be applied—to many on which paint is never used.

With it, painters can produce the textured, plaster or antique period effects so much in demand today, and in any color or combination of colors to match furniture or draperies.

The durability of Craftex has been proven.

It has been used for years in many of the important homes and buildings of the country.

On opposite page are shown a few of the texture and color effects possible with it.

One-Coat Craftex

Craftex (supplied in powder form) is mixed with hot water and applied with brush to wall. Textured with brush, sponge, trowel, etc. Can be colored before application.

Glaze Coat Craftex

Made by sizing and glazing the above base coat of Craftex. Color is added with the glaze.

Finishes

Innumerable original finishes produced by different color and texture combinations. Also exact reproductions of Caen stone, Travertine, Spanish, Italian and other rough plaster effects.

Surfaces Covered

Craftex covers not only wood, plaster, metal, glass, wall board, masonry and other surfaces successfully, but is the one material which will give a uniform unbroken wall treatment over a combination of different surfaces. Saves expense of skim coat plaster when applied direct to brown plaster floated or troweled comparatively smooth.

Advantages

Craftex gives a permanent, distinctive wall treatment that harmonizes with any desired color scheme.

Cost

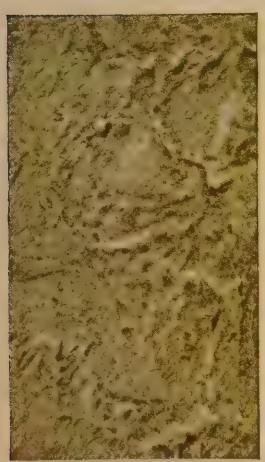
We recommend that you employ the services of a painter to apply Craftex. Costs will vary according to textures desired.

Service

The CRAFTEX COMPANY has offices in Boston, New York, Chicago, Atlanta, St. Louis and Philadelphia, as well as representatives throughout the country. The CRAFTEX COMPANY is ready at all times to co-operate with any building contractor in working with local painters who may not be familiar with Craftex, furnishing samples, detailed instructions for securing various finishes, working out special textures, colors, etc.

For further details and literature, write to: **CRAFTEX COMPANY'S NEAREST OFFICE**





Brush Texture



Troweled Texture



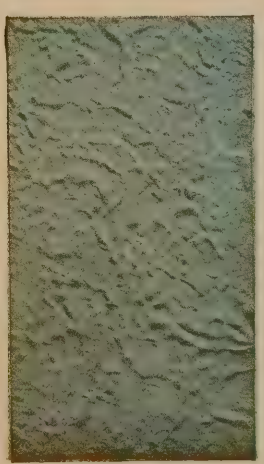
Light Stipple



Brush Texture



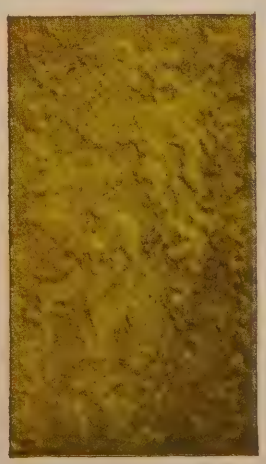
Sponge Texture



Paper Texture



Heavy Stipple



Paper Texture

For further details and literature, write to: CRAFTEX COMPANY'S NEAREST OFFICE

MORENE — The Wall Finish Distinctive

Made by

MORENE PRODUCTS CO., Inc.

245-247 West 28th Street, New York, N. Y.



Living Room in Residence of H. CHILDS HODGEN, Architect, Philadelphia, Pa.
Walls and ceiling finished in Morene. For a few of the many distinctive wall textures obtainable with Morene see next page

Products

The products of this company are: **Morene**—the Wall Finish Distinctive; **Kemisol,** a colorless liquid waterproofing for masonry surfaces above grade; and **Petrofluid,** an integral waterproofing for use in cement plaster applied to underground construction. Printed matter describing any or all of these products will be gladly sent to building contractors on request.

One Material—Many Finishes

The great utility of Morene to the building contractor lies in the fact that with this one material (a Portland cement product) it is possible to obtain an infinite variety of wall finishes, differing both in texture and color. Thus this one finish can be used throughout a house yet every room will have an individuality of its own, since Morene readily lends itself to the production of various textures and tones, including stipples, tapestry effects, sand finishes, travertine, caen stone, limestone and unpolished marble.

Easy to Apply to Any Surface

Morene is easily and quickly applied, with either brush or trowel, to any kind of surface—brown or white plaster, wood, metal, old painted surfaces, gypsum or fiber wallboards, etc. In new buildings Morene serves as a finishing coat of plaster with complete texture and color effect desired.

The Wall Finish Distinctive

Morene is a wall finish composed of Atlas white portland cement, sand, asbestos, oils and chemicals, all ingredients being so mixed and the oils so emulsified that they remain in suspension. It is used chiefly for obtaining interior and exterior textured wall finishes, from the plainest to the most elaborate, and it will enhance the appearance of any type of building, whether it be a residence, apartment house, church, hospital, office building, store or bank.

The selection of Morene as a medium for expressing the artist's skill in the decoration of many fine buildings is proof of the unusual effects possible to produce with this material. Combining as it does the permanency of concrete with the utmost in artistic expression, a casual inspection of the distinctive installations accomplished also murals executed with the Morene will convince even the most skeptical that it has been brought to a point of perfection beyond even the most sanguine expectation.

Will Not Check or Crack

Morene will not crack or check if the structural surface to which it is applied remains intact, and it may be scrubbed with soap and water without harmful effects. Unevenness and defects in the joints of wall boards and cracks in plastered walls are easily made invisible.

A Medium for Artistic Expression

Those who use Morene quickly acquire a fondness for it owing to the fact that in the hands of a skilled workman (or even a novice, only a little experimenting is necessary to become skillful in its application) Morene becomes a medium for the true artistic expression.

The texture obtained by applying it with a brush (like paint) differs from that produced by applying it with a trowel (like plaster) and starting with either of these textures one may produce an infinite variety of effects by the use of the palette knife, or sponge, or by stippling or raking the plastic surface with a wire brush. A few of these effects are illustrated on next page.

Colors

Morene is shipped in white only (creamish grey). Oil colors are added on the job, so that all colors can be produced, from the vivid hues to the most delicate pastel shades, two or more colors can be applied following each other immediately producing unlimited variety of blended effects.

Cost

Approximately the same as a good 3-coat paint job for the simpler textures and colors.

Containers and Capacities

Morene is shipped in ½ and 1 gallon cans, 5 gallon steel pails and 25 and 50-gallon barrels or steel drums.

The average covering capacity is 50 square feet of wall surface to the gallon, the amount of coverage varying with the texture desired and the nature of the surface to which Morene is applied.

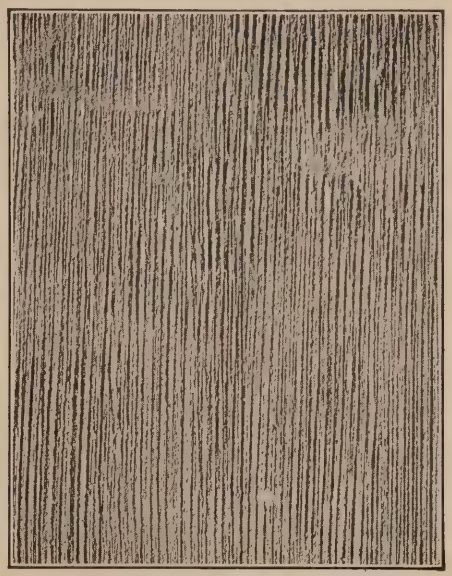
Directions and Samples on Request

Full directions for applying Morene so as to produce any desired effect, and a sample of the material itself will be sent to any building contractor on request.

MORENE—The Wall Finish Distinctive (Continued)



Brushed on and Flattened with Palette Knife



Heavily Brushed on and Raked Out with Wire Brush



Sponge Stippled and Flattened Morene Relief Ornaments Brush Stenciled



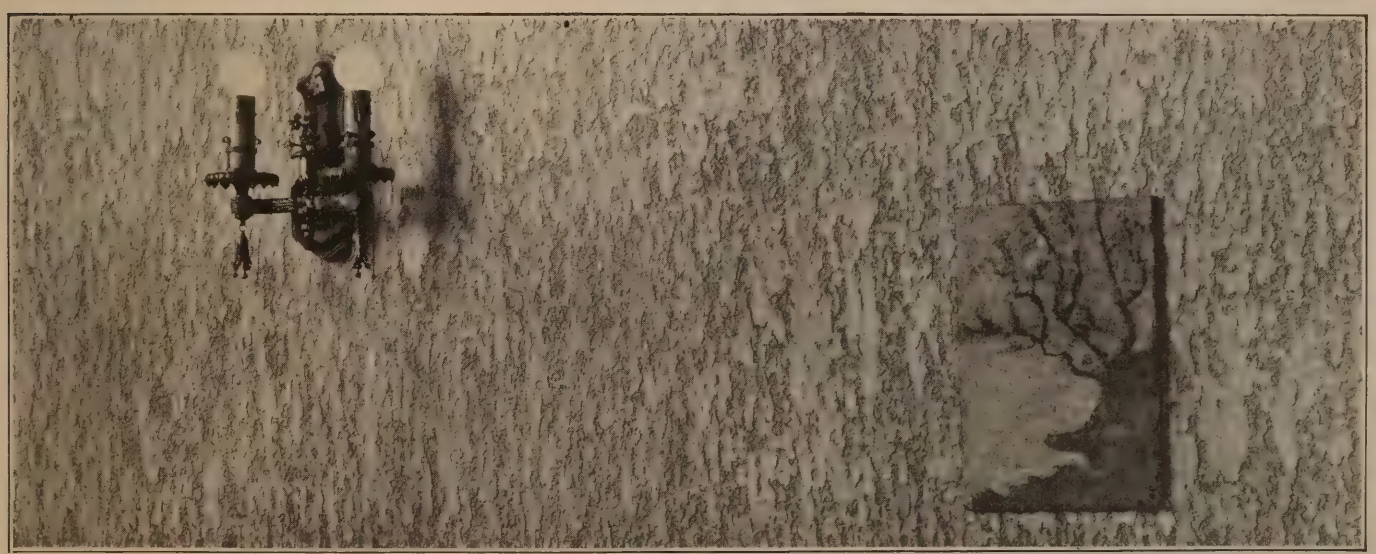
Brushed on, Roughly Stippled and Partially Flattened with Palette Knife



Brushed on Roughly



Roughly Brushed on and Partially Flattened with Palette Knife



Sun Porch Wall Finished in Morene—Heavy brush coat stippled and flattened with palette knife.
VARIOUS FINISHES AND TEXTURES OBTAINABLE WITH MORENE.

For further details and literature, write to: **MORENE PRODUCTS CO., Inc.** 245-247 West 28th Street, NEW YORK, N. Y.

Textone—An Interior Wall Decoration

Manufactured by the

UNITED STATES GYPSUM COMPANY

205 West Monroe St., Chicago, Illinois

BRANCH OFFICES

New York, N. Y., 17 State St.
Buffalo, N. Y., Ellicott Square Bldg.
Boston, Mass., 100 Bolyston St.
Washington, D. C., 605 Lenox Bldg.
Baltimore, Md., 1008 American Bldg.
Philadelphia, Pa., 415 Otis Bldg.
Pittsburgh, Pa., 917 Bessemer Bldg.
Cleveland, Ohio, 625 Hanna Bldg.
Cincinnati, Ohio, 704 Atlas Bank Bldg.
Detroit, Mich., 1462 Penobscot Bldg.
Milwaukee, Wis., Grove and Oregon Sts.
Minneapolis, Minn., 634 McKnight Bldg.
St. Louis, Mo., 1339 Syndicate Trust Bldg.
Kansas City, Mo., 420 Lathrop Bldg.
Omaha, Neb., 705 Brandeis Theatre Bldg.
Denver, Colo., 603 Denham Bldg.
Los Angeles, Cal., 1105 Edwards & Wildey Bldg.

For Other Products see pages as follows: Stucco, 87; Plasters and Finishes, 97; Insulation, 117; Wallboard, 125; Sheathing, 127.

Textone:

Economical Rough Textured Walls: Textone is a remarkable decorating material which makes possible, in homes of average cost, the rough textured, richly colored wall and ceiling effects that have formerly been confined to expensive residences and costly public buildings.

Texture and Color in One Application: Textone is manufactured as a fine powder and is packed in convenient 10 and 25-pound cartons. Water and pigment colors, added at the job, produce a heavy bodied mixture which can be readily applied with a brush. Textone adheres perfectly to almost any surface—plaster, Sheetrock, wood, glass, cardboard, etc.,—and, because of its unusual consistency, one application is sufficient for ordinary purposes. While still "tacky", Textone can be textured with a stippling brush, a whisk broom, wadded paper, a sponge, or the palm of the hand.



Spanish Wall Texture Produced with Textone

Unlimited Color Effects: The color possibilities of Textone are practically unlimited as tinting is done at the time of application. Mottled, stippled, and shaded effects can be produced by simple treatment and the rich colors can be harmonized perfectly with furnishings and hangings.

Authentic Period Designs: Because of the ease with which Textone can be textured, the individual ideas of the home owner can be faithfully reproduced. Modern decorating practice, however, demands that walls and ceilings shall harmonize with, and correctly interpret the architectural style of the building. Spanish, English, Colonial, and other period designs can be reproduced in Textone by the ordinary painter. To assist home builders in obtaining authentic reproductions of these textures, the United States Gypsum Company has prepared a valuable book on interior decoration which includes panels illustrating popular textures. A copy of this book will be sent upon request.

Easy to Use: The white Textone is mixed to a stiff, pastelike consistency by the addition of luke warm water. If a one-coat tinted finish is desired, pigment colors ground in oil or dry colors are added to the mixed Textone until the desired shade or tint is reached. The Textone is then applied to the surface in a thick coat with a large brush, and the texture is worked in with the same brush or by the other means mentioned above. One coat of Textone is equivalent in covering capacity to three coats of paint.

Textone Glaze: Textone Glaze is a specially prepared medium for obtaining two or more toned effects on Textone surfaces. Textone Glaze comes in quart and gallon cans with full directions for its use printed on the label. The Glaze is tinted with pigment colors in oil and is then applied to the surface with a brush. It is then wiped off or blended into the surface with a soft cloth. This process brings out beautiful high light and shadow effects.

"Breinig Built" Varnishes—Enamels—Paints

"BREINIG-BUILT" Paints & Varnishes

The Significance of the Trade-Mark

BACKED by three generations of Paint and Varnish makers, with products manufactured under the very latest improved and scientifically approved methods, this Trade-Mark has more significance than to merely identify the products under which it is issued.

IT is a mark of Quality, an assurance of Purity and warranty of Satisfaction.

IT also stands for Honesty, Uniformity, Dependability and Responsibility.

IT is the safeguard of the Architect, General Contractor, Master Painter or Consumer, as the standard of quality wherever it appears on Varnishes, Enamels, Paints, Stains or Fillers.

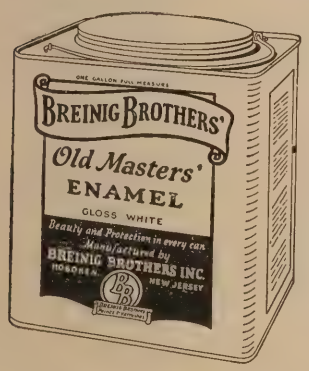
Always Insist on the "Breinig-Built" Trade-Mark.

Regardless of the amount of money spent in the construction of the home, this is all wasted unless finishing products of the highest quality are used to not only properly protect each and every surface, but to insure beautiful color combinations for the exterior and interior, and in the case of Stain and Varnish effects, to develop the hidden beauty in the wood.

When you consider that the cost of materials used for decoration, represent only 25% of the cost of the work, it can readily be seen that it is not economical to use inferior products.

It costs no more to use BREINIG BROTHERS' VARNISHES, ENAMELS AND PAINTS than the ordinary finishes to be found on the market.

A Few of the Products Taken from Our Very Complete Line Follow:



Old Masters' Enamel:

This enamel is of the highest quality and is suitable for either exterior or interior use. It has excellent covering qualities, flows freely, does not show brush marks and will not sag. Dries free from dust in six to eight hours, and hard in forty-eight hours. Will not yellow with age and can be washed with soap and water. The beautiful finish obtained through the use of this enamel reflects an atmosphere of cheer and harmony to any interior.

Genuine Silex Paste Wood Filler:

For use on all open grained woods such as Oak, Ash, Chestnut and Mahogany. Made from specially selected Water-floated Silex and forms a solid unshrinkable foundation for the subsequent coats of varnish.

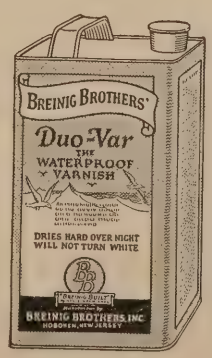
Entirely free from cloudy or muddy effects and brings out to the fullest extent the beauty of the wood to which it is applied.



DUO-VAR—The Waterproof Varnish:

This is an all purpose varnish for floors, trim, linoleum furniture and all interior and exterior surfaces. Dries hard overnight and is sold under an absolute guarantee to give complete satisfaction.

It is absolutely waterproof and will successfully and convincingly withstand any test advocated for any waterproof varnish.





Ever-Dure Pen-O-Stains:

These are the highest type stains of their kind on the market. They penetrate the wood to which they are applied deeply and thoroughly, do not raise the grain, are true to color, and produce a finish that develops and accentuates the beauty of the wood they are used on.

With the exception of mahoganies, these stains may be used as one coat finishes, or they can be finished over in wax effect by using Breinig Brothers' Shellac and Ever-Dure Prepared Wax. If a varnish finish is desired, wood surfaces may be filled over with Genuine Silex Paste Wood Filler, and followed with required number of coats of our Architectural Varnishes.

For further details, literature, and address of our nearest dealer, write to:

BREINIG BROTHERS, INC., HOBOKEN, N. J.

Paint and Varnish Manufacturers for Three Generations

Specifications for Finishing Floors and Interior Trim with Johnson's Artistic Wood Finishes

Manufactured by S. C. JOHNSON & SON

"The Wood Finishing Authorities", RACINE, WIS.

FACTORIES: RACINE, WIS.; BRANTFORD, CANADA; WEST DRAYTON, MDDX., ENGLAND; SYDNEY, AUSTRALIA.

FACTORY BRANCHES:

Cleveland, Ohio, 7106 Superior Avenue
Denver, Colo., 1846 Arapahoe Street
Des Moines, Iowa, 1435 W. 29th Street
Detroit, Mich., 3155 Grand River Avenue
Kansas City, Mo., 611 Delaware Street
Los Angeles, Calif., 1151 Santee Street
Louisville, Ky., 623 W. Market Street
Milwaukee, Wis., 864 Third Street
New Orleans, La., 508 Magazine Street
New York, N. Y., 46-48 Lispenard Street
Omaha, Neb., 1407 Harney St.
Philadelphia, Pa., 410-12 Commerce St.
San Francisco, Calif., 1250 Folsom Street
St. Louis, Mo., 2116 Locust St.
St. Paul, Minn., 1930 St. Anthony Avenue

Products:

JOHNSON'S ARTISTIC INTERIOR FINISHES, include:

Perfectone Undercoat
Perfectone Enamel
Glo-Coat Enamel
Wood Dyes (Penetrating)
Oil Stain
Spirit Stain
Prepared Polished Wax (Paste and Liquid)
Johnson's Wax Electric Floor Polisher
Paste Wood Filler
Permacote Wall Finish
Flat Varnish
Floor Varnish
Interior Trim Varnish
Finishing Varnish
Sani-Spar Varnish
Sani-Spar Varnish Stain
Electric Solvo Varnish Remover

Slogan:

"The Wood Finishing Authorities"

Scope and General Information:

S. C. Johnson & Son, *"The Wood Finishing Authorities,"* have been in business at Racine, Wis., for nearly 50 years. They manufacture all their own products in one of the finest plants in the world equipped with most up-to-date mills and machinery and under the strictest laboratory supervision.

S. C. Johnson & Son do not manufacture paint—they specialize on highest quality interior finishes. Every Johnson product is right when it goes into the package, absolute uniformity is assured, there is no deterioration.

S. C. Johnson & Son, beginning as manufacturers of hardwood flooring, have developed logically to the outstanding wood finishing authority among American manufacturers. Johnson products, for instance, are standard in nine-tenths of American schools where Manual Training and Vocational Education are taught.

S. C. Johnson & Son maintain a Service Department on Wood Finishing Problems which is utilized by the most particular manufacturers, builders and educational institutions in the country; available without charge to any individual. Johnson's specifications are regarded as standard for high grade construction.

Of especial interest to builders is the new Johnson's Wax Electric Floor Polisher, a general utility machine for polishing all floors—the only small, efficient, easily handled, floor machine available for the average job, large or small, at a low cost.

Specifications for Finishing Hardwood and Softwood Floors:

For a Wax or Varnish Finish on Oak, Chestnut, Ash, Mahogany, and Other Open Grain Woods—

Preparation—Have the surface sanded smooth and thoroughly dusted. All nailholes, and other defects shall be treated with Johnson's Crack Filler so as to render them unnoticeable.

First Coat—One coat of Johnson's Paste Wood Filler—color selected by client—on bare wood. Wipe off with burlap or excelsior across the grain and allow 24 hours to dry.

Second and Third Coats—Two coats of Johnson's Prepared Wax. Allow 1 hour for hardening between coats. Each coat to be polished with a weighted polishing brush or, preferably, Johnson's Wax Electric Floor Polisher.

Or—Two coats of Johnson's Floor Varnish, allowing 24 hours between coats. Sandpaper first coat with No. 00 sandpaper.

NOTE—We do not recommend shellac or shellac substitute on floors where a spirit or oil dye is not used.

For Stained Effects on Oak, Chestnut, Ash, Mahogany and Other Open Grain Woods—

Preparation—Have the surface sanded smooth and thoroughly dusted. All nailholes, and other defects shall be treated with Johnson's Crack Filler so as to render them unnoticeable.

First Coat—One coat of Johnson's Wood Dye, shade to be selected by client.

Second Coat—One coat of Johnson's Paste Wood Filler—color selected by client—on bare wood. Wipe off with burlap across grain and allow 24 hours to dry.

Third Coat—One thin coat of Johnson's Under-Lac or pure shellac. Sandpaper very lightly with No. 00 sandpaper.

Fourth and Fifth Coats—Two coats of Johnson's prepared Wax, allowing an hour between coats. Each coat to be polished with weighted brush or, preferably, Johnson's Wax Electric Floor Polisher.

Or—Two coats of Johnson's Floor Varnish, allowing 24 hours to dry between coats. First coat to be sanded before applying subsequent coat.

For a Natural Wax or Varnish Finish on Maple, Birch, Georgia Pine, Oregon Pine, Gum Wood, Poplar, Redwood, and Other Close Grain Hardwoods and Softwoods—

Preparation—Have the surface sanded smooth and thoroughly dusted. All nailholes and other defects shall be treated with Johnson's Crack Filler so as to render them unnoticeable.

First and Second Coats—Two coats of Johnson's Prepared Wax, allowing an hour between coats. Each coat to be polished with weighted brush or, preferably, Johnson's Wax Electric Floor Polisher.

Or—Two coats of Johnson's Floor Varnish allowing 24 hours to dry between coats. First coat to be sanded before applying subsequent coat.

For a Stained Effect Wax or Varnish Finish on Maple, Birch, and Other Close Grain Hardwoods and Softwoods—

Preparation—Have the surface sanded smooth and thoroughly dusted. All nailholes, and other defects shall be treated with Johnson's Crack Filler so as to render them unnoticeable.

First Coat—One coat of Johnson's Wood Dye, shade to be selected by client.

Specifications for Finishing Floors and Interior Trim (Cont'd)

Second Coat—One coat of Johnson's Under-Lac sanded and dusted.

Third and Fourth Coats—Two coats of Johnson's Prepared Wax, allowing an hour between coats. Each coat to be polished with weighted brush or, preferably, Johnson's Wax Electric Floor Polisher.

Or—Two coats of Johnson's Floor Varnish, allowing 24 hours to dry between coats. First coat to be sanded before applying subsequent coat.

Specifications for Finishing New Woodwork:

For a Natural Finish on Oak, Chestnut, Ash, Mahogany and Other Open Grain Woods—

Preparation—Have the surface sanded smooth and thoroughly dusted. All nailholes and other defects shall be treated with Johnson's Crack Filler so as to render them unnoticeable.

First Coat—One coat of Johnson's Natural Paste Wood Filler No. 10. As soon as filler begins to lose gloss and before it hardens, wipe off across the grain with burlap or excelsior to remove excess. Allow 24 hours to dry before applying succeeding coat. Johnson's Paste Wood Filler also made in Mahogany, Golden Oak, Dark Oak, and Antwerp.

Second and Third Coats—Two coats Johnson's Prepared Wax; allowing an hour or more between coats. Each coat to be polished with soft rag or Johnson's Polishing Mitt.

Or—Two coats of Johnson's Sani-Spar allowing 24 hours between coats. First coat to be sanded with No. 00 sandpaper.

Or—Two coats of Johnson's Floor Varnish allowing 24 hours between coats. First coat to be sanded with No. 00 sandpaper.

Or—One coat of Johnson's Floor Varnish and one coat of Johnson's Flat Varnish if dull finish is desired. First coat to be sanded before applying subsequent coat.

Note: If a rubbed finish is desired over Johnson's Sani-Spar or Floor Varnish use pumicestone and oil or pumicestone and water, allowing 48 to 72 hours for last coat to dry.

For a Natural Finish on Softwoods and Close Grain Hardwood on Maple, Birch, Beech, Pine, Oregon Pine, Gum Wood—

Preparation—Have the surface dry, sanded smooth, and thoroughly dusted. All nailholes, and other defects shall be treated with Johnson's Crack Filler.

First and Second Coats—Two coats of Johnson's Sani-Spar or Floor Varnish on the bare wood, allowing at least 24 hours between coats. First coat to be sandpapered with No. 00 sandpaper before applying subsequent coat. (May be rubbed if desired.)

Or—One coat of Johnson's Sani-Spar Varnish and one coat of Johnson's Prepared Wax. Wax coat to be polished with soft rag or Johnson's Polishing Mitt.

Or—One coat of Johnson's Floor Varnish and one coat of Johnson's Flat Varnish if a dull finish is desired. First coat to be sanded with No. 00 sandpaper before applying subsequent coat.

For Stained Effect on Open Grain Woods—

Preparation—Have the surface sanded smooth and thoroughly dusted. All nailholes, and other defects shall be treated with Johnson's Crack Filler.

First Coat—One coat of Johnson's Wood Dye, shade to be selected by client. Allow 12 hours to dry.

Second Coat—One coat of Johnson's Paste Wood Filler to match the stain. Wipe off across grain with burlap or excelsior to remove excess filler and allow 24 hours to dry.

Third Coat—One coat of Johnson's Under-Lac or pure shellac. Sandpaper lightly with No. 00 sandpaper.

Fourth and Fifth Coats—Two coats of Johnson's Prepared Wax, allowing an hour or more between coats. Each coat to be polished with soft rag or Johnson's Polishing Mitt.

Or—Two coats of Johnson's Sani-Spar Varnish or Johnson's Floor Varnish. Sand first coat with No. 00 sandpaper and allow 24 hours to dry. May be rubbed if desired.

Or—One coat of Johnson's Flat Varnish for a dull finish.

For Stained Effect on Open Woods—

Preparation—Have the surface dry, sanded smooth, and thoroughly dusted. All nailholes, and other defects shall be treated with Johnson's Crack Filler.

First Coat—One coat of Johnson's Wood Dye, shade to be selected by client.

Second Coat—One coat Johnson's Under-Lac or pure shellac. Sand lightly with No. 00 sandpaper.

Third Coat—One coat of Johnson's Prepared Wax. Allow to dry 10 minutes and polish with soft rag or Johnson's Polishing Mitt.

Or—One coat Johnson's Flat Varnish for a rubbed finish.

Or—One coat Johnson's Sani-Spar Varnish or Floor Varnish clear. May be rubbed if desired.

For Interior Enamel Finish on Woodwork, Kitchens, Pantries and Bathrooms—

Preparation—Before any finish is applied have surface sanded smooth and thoroughly dusted.

Priming Coat—One coat of Johnston's Perfectone Undercoat—thinned with 1 pint raw linseed oil, ½ pint pure spirits of turpentine and 3 ounces white japan drier to 1 gallon of Undercoat. Brush out well and allow 24 to 36 hours for drying. Sand with No. 00 paper. All nailholes and other defects to be puttied with lead and whiting putty. A light coat of white shellac should be applied on knots and all pitchy wood. Sand with No. 00 sandpaper and dust.

Second or Body Coat—One coat of Johnson's Perfectone Undercoat as comes in the can. If necessary to reduce, use pure spirits turpentine only. Apply freely, flowing it on, and allow 24 to 36 hours for drying. Sand with 00 paper. Dust and apply—

First Enamel Coat—One coat of Johnson's Perfectone Enamel Gloss or Perfectone Enamel Satine, or Johnson's Glo-coat Enamel. A flowing coat which has been reduced with ½ pint pure turpentine to the gallon. Allow this coat 4 or 5 days to harden. Sand lightly with No. 00 paper. Dust carefully and apply—

Finish Enamel Coat—Johnson's Perfectone Enamel or Johnson's Glo-Coat Enamel. A flowing coat as it comes in the can. Last may be rubbed with pumice and water if desired.

NOTE—Care should be taken that building be well heated when applying material.

For Walls—Johnson's Permacote—

Preparation—Remove all old finish, sand, and dust off. Fill all cracks with heavy paste made from equal parts of Permacote and plaster of paris.

First Coat—Johnson's Permacote (tinted to suit taste of client) reduced equal parts with Johnson's Wall Size or reduced with ½ gallon of pure boiled linseed oil to 1 gallon Johnson's Permacote. Allow 24 hours for drying. If suction or "hot spots" show through, touch up with above mixture.

Second and Third Coats—Apply Johnson's Permacote as it comes in the can (tinted to suit the taste of client). If thinning is necessary, use pure gum turpentine, not more than 1 pint to a gallon. May be stippled if desired.

Price List:

Tell your painting contractor to write for our special net price list.

For further details and literature, write to: **S. C. JOHNSON & SON, Dept. H. B. C., Racine, Wis.**

PAINTS - VARNISHES - MURESCO

Benjamin Moore & Co.

NEW YORK
CHICAGO
CLEVELAND

ST. LOUIS
CARTERET
TORONTO





"Quality Forever-Moore"





Benjamin Moore & Co.'s products comprise a complete line of Paints, Enamels, Stains, Varnishes and Wall Finishes, suitable to protect and beautify any surface, in any home. Among the many Moore products, are several outstanding specialties, which, because of their value to the Home Builder, we list below with brief description of each.

Moore's Pure Linseed Oil House Paint

A perfect product for exterior use, attained by the skillful combination of lasting pigments, pure linseed oil and high grade liquid dryers. Works well and dries perfectly hard, with sufficient elasticity to prevent cracking or peeling under the extremes of climatic change. When applied according to directions and under the proper conditions, this product can be depended upon to give entire satisfaction. It excels in its covering properties and wearing qualities. This high grade House Paint is manufactured in thirty colors. Painting and trimming suggestions will be sent on request. Moore's House Paint is Ready for Use when you buy it.

Porch and Deck Paint

An extremely high grade processed oil paint for surfaces subjected to rough wear and much outdoor exposure. Manufactured in six well selected colors. It dries smooth with a hard surface and a full gloss. May be hosed and scrubbed without injury. Especially suited for the painting of porch floors and steps, and exposed canvas surfaces.

Blind and Trellis Green

A more permanent and lasting green, manufactured in three beautiful new shades, which will add distinctiveness to any home. Particularly suited for exterior trim and blinds, where greens of more colorful appearance and lasting permanence are required. These greens may be obtained either in Ready Mixed or Paste Form. We suggest the former to the man who expects to do his own decorating. They cover well, work easily and can be relied upon to the utmost.

Mooramel

The ultimate of present day perfection in an enamel for interior and exterior use. This enduring enamel is made of the finest white zinc pigment ground and re-ground in specially treated oils, thinned with pure turpentine and properly aged to insure complete incorporation of all ingredients. For use especially where the finest enamel finish is desired, and, in bath and kitchen. Its porcelain-like finish has a hard brilliant lustre that is impervious to wear and frequent washings. Will not chip or crack. Manufactured in Ivory, Gray, Light Blue, Gloss White and Eggshell White.

Sani-Flat

A flat oil paint suitable for all interior decoration. Absolutely non-poisonous, free of lead. Washable. This product works easily and sets slowly, showing no laps or brush marks. It is manufactured in twenty delightful artistic shades, steadfast in color. A surface painted with Sani-Flat may be

PAINTS - VARNISHES - MURESCO



Benjamin Moore & Co.

OF FURTHER INTEREST TO HOME BUILDERS

"Quality Forever-Moore"



cleansed innumerable times simply by washing with soap and water. It may be used on plaster, wood, wallboard and metal surfaces with equal satisfaction. Wherever a beautiful flat durable surface is required on the interior of a home, the decorator should use Sani-Flat.

Muresco

Superior to Kalsomine—Sanitary and Economical

A dry powder easily prepared for use by mixing with boiling water. A widely used and highly recommended hot water paint for wall and ceilings. Prepared in eighteen tints and eighteen deep colors. Muresco makes a perfect, smooth, velvet-like finish that will not rub off, crack, or peel. Muresco is the most popular wall finish in the markets of the world. This is due to its ease of preparation and application and a combination of peculiar richness and depth of color.

Impervo Surfacer

A special oil base liquid of light color, upon which Flat Paints, Enamels and Calcimines may be economically and satisfactorily applied. Impervo Surfacer is a priming undercoat which successfully prevents alkali, acid, stains, or moisture from injuring subsequent coats. It contains no glue, alum, rosin, or other ingredients that are liable to cause defects in finishing coats, such as peeling, cracking, alligatoring, or saponification. Impervo Surfacer is easy to apply, economical and dependable. It should be used in connection with Sani-Flat, Muresco and other wall coatings, when the finest class of work is desired. As a wall size it has no equal.

Impervo Architectural Varnishes

The Impervo Line of Architectural Varnishes represent only the highest grade varnish products. They are the result of years of experience in varnish manufacture and may be relied upon for the utmost in satisfaction. The line embraces a specialty for every type of work.

Exterior Spar

An old-fashioned hard gum, long oil type varnish for any outdoor use. Very elastic, and highly resistant to knocks and scratches. Intended for finishing outside Doors, Storefronts, Porches, Vestibules, Yachts, and all work subjected to continuous and extreme weather exposure.

Elastic Floor

An especially hard and brilliant product to withstand the grinding abuse to which all floors are subjected. It is intended for hard or new wood; for old or new floors. It is medium in color, spreads with remarkable freedom, and will not scratch, spot, or show heel marks. Dries hard overnight with a rich full gloss, but may be rubbed to a dull finish if desired. Will not turn white.

Movar

This is the universal or general purpose varnish. Its various properties and characteristics are so balanced that satisfactory results may be obtained in any service in which Movar is employed. Not affected by boiling water, alcohol, ether, oil or grease. Equally satisfactory for Interior and Exterior use. Combines protective impervious properties with extreme elasticity.

Pale Rubbing and Polishing

For interior use on the finest polished surfaces and all cabinet work. Has perfect leveling qualities and fills all requirements for a varnish of this nature. This varnish is made from especially selected and prepared materials to give it good color, heavy body, and easy working properties. It can be flowed on with a minimum of brushing and will show no sags or runs on the finished surface.

Shingle Stain

Moore's Shingle Stains are composed of the best wood preservative oils and creosote tinted with pure coloring pigment. The colors are beautiful, rich and permanent, producing soft artistic effects, which preserve as well as beautify the wood. As the stain penetrates the shingles, it fills the pores, rendering the surface proof against decay, rot and the boring of insects.

Shingle Stains are more economical to apply and more artistic than paint and can be applied quickly either by dipping, brushing or spraying. These stains do not hide the grain of the wood, but bring it out and intensify its beauty. Made in twelve natural colors. Recommended also for finishing and preserving clapboards, siding and exterior woodwork, where a quick, economical and artistic appearance is desired.

VALENTINE'S VARNISHES and COLORS

Manufactured only by

VALENTINE & COMPANY

New York—456 Fourth Avenue | Chicago—343 So. Dearborn Street, W. P. Fuller & Co., Pacific Coast | Boston—49 Purchase Street

Build for Beauty and Permanence

Realizing a long-cherished ambition—that is what the home you are about to build means to you. For the great majority of men and women the opportunity to build their own houses—determining every part of the construction from cellar to attic—comes but once in a lifetime.

Since it is to shelter you and your family for years to come, build it for *permanence—build it for beauty.* As you plan each detail of the construction and finish, ask yourself this question: "How will this look a year from now? Five years from now? Ten years from now?"

VALENTINE'S VALSPAR
The Varnish That Won't Turn White

For True Economy—Valspar

The factor of economy will have to enter into your decision, of course. But *wear* is the paramount consideration. No matter how promising the cheaper materials may appear to you, you'll find abiding satisfaction only in the better grades because of their durability, quality and long wear.

This is particularly true of the paint and varnish you choose. So much of the beauty and luxurious effect that you want your house to have depends upon the style in which it is finished. Not only that—a good sturdy finish can add years to the life of the metal and woodwork it protects.

In painting and varnishing, labor is always the biggest item. So why not use the best materials and get longer wear and greater beauty for the same expenditure of labor? It is ordinary building common sense, then, to use varnish of the best quality for the greater service and good looks it affords. Also, you will find the quality product far more economical in the long run. The initial cost may be greater, but the long life of quality materials reduces refinishing costs to a minimum.

Valspar for Long Satisfaction

No finish will give you finer lustre and longer service than Valspar. For Valspar is the *one* finish on the market that is absolutely waterproof. Other varnishes are advertised as waterproof and they may, it is true, withstand temporary exposure to water. But given enough time or a severe enough test, they will discolor and whiten. Valspar, however, can be exposed to the action of water, boiling hot or icy cold, for months, even years, without harm.



The Famous Valspar Boiling Water Test

And because of this absolute waterproofness, combined with remarkable toughness and elasticity, Valspar resists wear and hard knocks to a degree unequalled by any other varnish. This unusual durability is the secret of Valspar's great economy and Valspar adds to the appearance of the home by making it bright and attractive for it enhances the beauty of any surface and keeps it beautiful.

Valspar in Colors

You can get Valspar in any color by asking for Valspar Varnish-Stains and Valspar-Enamels. Both Valspar Varnish-Stains and Enamels have the same absolutely waterproof and long wearing qualities as clear Valspar, for they are Valspar Varnish itself with colors added.

For all wood and metal work, inside or outside the house, use Valspar or Valspar in colors if you desire a finish of lustrous smoothness, elasticity, durability and waterproofness. You are building for permanence when you use Valspar.

A Valentine Product for Every Need

Valentine's Valspar Varnish—for all wood and metal work indoors and out, where clear varnish is desired; *Valspar Varnish-Stains*—Valspar combined with *transparent* wood colors for use where stain as well as varnish is desired; *Valspar-Enamels*—clear Valspar combined with pigments in a great variety of handsome shades for use where the surface is to be covered solidly as with paint, but where Valspar's protection is desired. *Val-Enamel*—a long oil enamel in gloss, eggshell gloss or mat finish for use on woodtrim indoors or out; *Valspar Satinamel*—eggshell gloss finishing enamel for use where a dull finish is required; *Val-Enamel Undercoating*—for undercoats under *Val-Enamel* or *Valspar-Enamels; Val-Primer Wood* and *Val-Primer Metal*—for very first coat on new surfaces to prepare them for the enamel coats; *Val-Enamel Primer Filler*—for first coat on new open-grain woodwork and cement and plaster walls; *Valentine's Colors in Oil*—for use in tinting enamels; *Valsement*—a protective paint for concrete floors in cellars or garages.

For further details and literature, write to: **VALENTINE & COMPANY,** 456 Fourth Avenue New York City

Valspar—the varnish that won't turn white

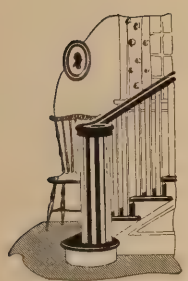
Boiling water from a leaky radiator cannot hurt a Valsparred floor! Mop up the overflow and the woodwork will be found as smooth and lustrous, as free from any discoloration or whitening as if the accident had never happened.

In fact, Valspar is the one varnish that can truly be called "accident-proof." Strong alkaline soaps and washing powders, ammonia, hot grease, oil—make no impression on a Valsparred surface. Rain, snow and ice, sudden changes of temperature—none of these can injure Valspar in the slightest.

It is precisely this accident-proof quality that makes Valspar the ideal finish for household use. Where wood and metal are protected by this incredibly tough, yet handsome finish, the householder is free from upkeep expense and worries.



"It's Lucky the Floor is Valsparred"



For All Woodwork and Trim—Valspar

Only One Valspar

No other varnish at all resembles Valspar. It is a unique invention which has never been approached by any other varnish although other manufacturers have tried for years to produce a finish that would equal Valspar in waterproofness and all-round utility and beauty.

Other Valspar Advantages

Valspar possesses many other merits besides waterproofness. It is unusually smooth and brilliant in lustre. It is extremely elastic and will not scratch easily—hence retains its fine appearance long after other varnishes have grown shabby and dull. Dries very rapidly—dust free in 4 hours, hard in 24. And it is so durable, so wear-resistant that the service and protection it gives are truly remarkable.

Test after test has proved that this happy combination of advantages makes Valspar the one best varnish for all purposes, both inside the house and outside.

For a Beautiful, Dull Finish

Some people prefer to have a dull finish for their woodwork.

With Valspar, it is easy to rub the original mirror-like gloss to an attractive satin finish, if desired. This finish is in every way as durable and waterproof as the natural finish.



Valspar Protects and Renews Printed Linoleum

Where to Use Valspar

Valspar is unequalled for all wood or metal work, inside the house or out. On floors, walls, trim, doors and porches, it gives lasting protection and satisfaction. And in the kitchen, laundry and bathroom, particularly, you will appreciate the absolute waterproofness that Valspar alone can give. Wherever you want varnish, use Valspar.

VALENTINE'S
VALSPAR
The Varnish That Won't Turn White

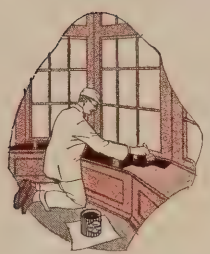
Valspar covers about 450 sq. ft. to a gallon one flowing coat. It costs a little more than ordinary varnishes, but the slight additional cost is more than offset by the far greater service it gives.

For further details and literature, write to: **VALENTINE & COMPANY,** 456 Fourth Avenue New York City

Valspar Varnish-Stain—the one varnish stain that can be used out-of-doors as well as indoors



THERE are many places around your home where you want your woodwork stained in beautiful wood colors and also varnished—your floors, perhaps, or your furniture, the porch or front door. That's where you want to use Valspar Varnish-Stains.



Waterproof, Durable Protection

Valspar Varnish-Stains are Valspar itself combined with the finest transparent wood colors—Mahogany, Light Oak, Dark Oak, Walnut, Cherry and Moss Green. They enable you to apply both varnish and stain with one stroke of the brush, saving you the bother of applying a coat of stain, waiting for it to dry, then putting on the varnish.

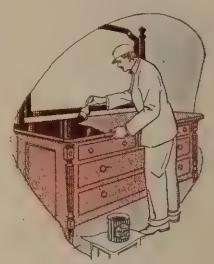
Waterproof, Weatherproof, Accident-proof

Because Valspar Varnish-Stains are colored Valspar, you will find this finish every bit as serviceable outdoors as it is indoors. For Valspar Varnish-Stains withstand every test of durability and weatherproofness that Clear Valspar stands. They will not fade in sunlight. Acids, alkalies, and ammonia will not mar their color or lustre. And they will not turn white in water, no matter what the temperature of the water or how long exposed.

For a Dull Finish

The natural finish of Valspar Varnish-Stain is brilliantly glossy. But this may be rubbed down to an artistic dull effect, if desired by using "pumice flour," and rubbing felt. The resulting finish is as fine as the rarest cabinet work, yet having at the same time all of Valspar's accident-proof qualities.

Valspar and Stain at One Stroke of the Brush



Where to Use Valspar Varnish-Stains

Valspar Varnish-Stains are a safe, convenient and beautiful finish for all woodwork, whether old or new, indoors or out. For example, use them on your front door to keep it always bright and shining; on your floors to insure a beautiful permanent finish that will stand up under the heaviest traffic; on your ice box—to keep the woodwork from warping and cracking; on old furniture—to restore the original beauty of color and lustre and bring every piece into harmony with the general color scheme; on window sills, porch furniture and drain boards, wainscoatings, closet shelves.

In short, use Valspar Varnish-Stains on wood and metal work of all kinds, wherever you want beautiful, natural wood colors combined with lustrous, durable, waterproof protection.

VALENTINE'S
VALSPAR
VARNISH-STAIN

For further details and literature, write to: VALENTINE & COMPANY, 456 Fourth Avenue New York City

Valspar-Enamel—Valspar in beautiful, solid colors



NOWADAYS, when enameled woodwork is so much in vogue, you will no doubt wish to have much of your woodwork Valspar-Enameled. Perhaps the front door and entrance, the banisters, the walls in the living-room or your bedroom furniture.

With Valspar-Enamel you can have just the shade and color you want combined with all of Valspar's waterproofness and durable protection. For Valspar-Enamels are Clear Valspar itself carefully mixed with the finest of colored pigments.

Better Than Paint for Many Uses

Valspar-Enamels resemble paint in that they cover the surface with solid color. But this solid coating has a smoothness and gloss far superior to a paint finish. Since Valspar-Varnish forms the base of Valspar-Enamels they are, of course, waterproof and weatherproof. Moreover, they defy the action of alkalies and acids and can be washed freely with soap and water. Brilliant sunlight will not fade the colors.

Valspar-Enameled Woodwork is Beautiful and Sanitary



Any Color You Want

Valspar-Enamels come in twelve beautiful colors: Red—*light and deep;* Green—*medium and deep;* Blue—*light, medium and deep;* Vermilion; Ivory; Bright Yellow; Gray and Brown. Also White, Black, Gold, Bronze, Aluminum and Flat Black.

And by mixing two or more of these standard colors in varying proportions any other desired shade or tint may be obtained to harmonize with any particular color scheme.

For a Beautiful Satin Finish

Just as with Valspar and Valspar Varnish-Stains, the original high lustre of Valspar-Enamel can be rubbed down to a dull finish if preferred. The result will be an attractive satin finish that is thoroughly hard and durable, meeting all the Valspar tests.

Where to Use Valspar-Enamels

Uses for Valspar-Enamel are almost unlimited. On woodwork and metal work inside the house and out, on floors, doors and walls in the bathroom and all bedrooms, Valspar-Enamel will be found to give unequalled protection, combined with unusual beauty of finish.



Bring Sunshine into Your Home with Valspar-Enamel

And in the kitchen particularly, the absolute waterproofness and durability of Valspar-Enamels will be found of particular advantage as the walls and woodwork may be kept bright and sanitary merely by washing with soap and water.

In fact, wherever a lustrous, durable finish in white or *color* is desired—use Valspar-Enamel.

VALENTINE'S
VALSPAR
ENAMEL

For further details and literature, write to: **VALENTINE & COMPANY,** 456 Fourth Avenue New York City

Outdoor Lighting Fixtures of Cast Iron and Bronze

Manufactured by

THE HERWIG COMPANY

1751 Sedgwick Street, Chicago

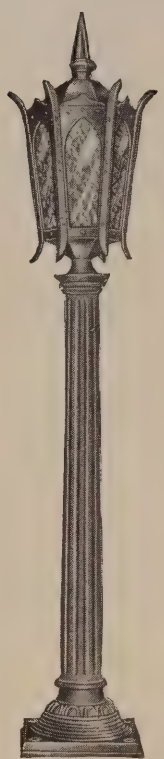
Product:

This company manufactures a very complete line of fixtures for every outdoor purpose. Suitable for bungalows and other types of houses, country clubs, garages, and industrial and commercial buildings. Local electrical jobbers and dealers can furnish further information, prices, etc., or communicate direct with The Herwig Company, 1751 Sedgwick Street, Chicago, Illinois.

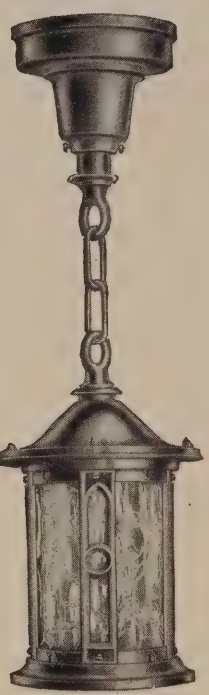
HERWIG FIXTURES PREDOMINATE THE FIELD OF OUT DOOR LIGHTING



No. 237



No. 234
Height Overall
72 and 90 inches



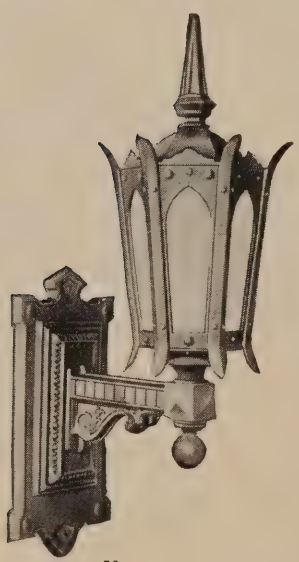
No. 140
Length Overall
30 inches



No. 87
Height to Holder
54 and 72 inches



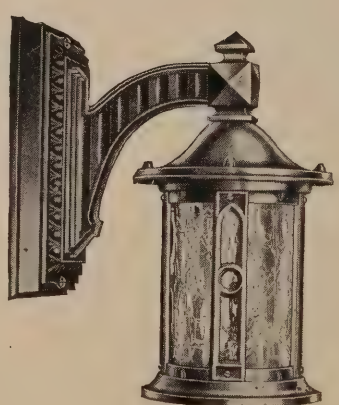
No. 154



No. 129



No. 152



No. 141
4x6 Cylinder



No. 236

For further details and literature, write to: **THE HERWIG COMPANY, Chicago**

Wrought Iron Hardware, Lanterns, Lighting Fixtures

Manufactured by

STANDARD IRON & WIRE WORKS

Chattanooga, Tennessee

Products:

This Company manufactures Lanterns and Lighting Fixtures, Bridge Lamps, Torchers, Candlesticks, Door Hinge Straps, Latches, Knockers, Bell and Switch Plates, Flower Baskets, Fern and Bird Cage Stands, Console Tables, Andirons, Fire Sets and Screens, Smoking Stands, etc. all made of Wrought Iron, a few examples being illustrated on this page.

For Balcony and Porch Railings, etc., see page 296.

Construction:

All articles are made of genuine Hand Forged Wrought Iron, carefully finished and furnished complete with the necessary screws or nails for installing. All lanterns and lighting fixtures are completely wired ready for hanging.

When furnishing Wrought Iron Hardware for doors, the same motif is used throughout for hinge straps, latch and knocker (see Figures 207, 205 and 201 which form a set).

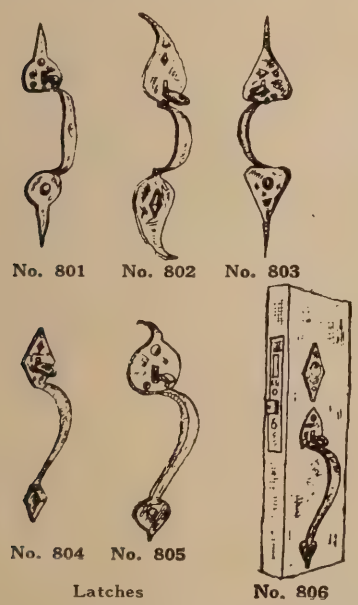
Special Designs:

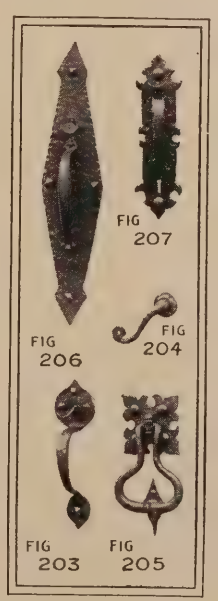
We are always glad to work out special designs in keeping with customer's suggestions, to give the finished article the individual touch so much desired when carrying out some particular decorative scheme.

Many of the houses shown in the Home Builders Catalog lend themselves to some of the products we manufacture, and the attractiveness of such homes will be greatly improved by their use. We will gladly quote on requirements. Ask for complete literature concerning any items interested in.

Some Types of Lanterns Suitable for Colonial, English, Spanish and Italian Styles of Architecture.

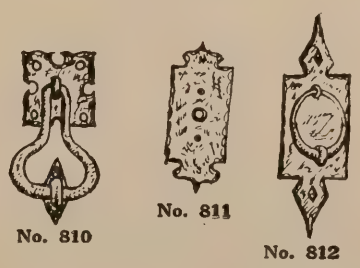


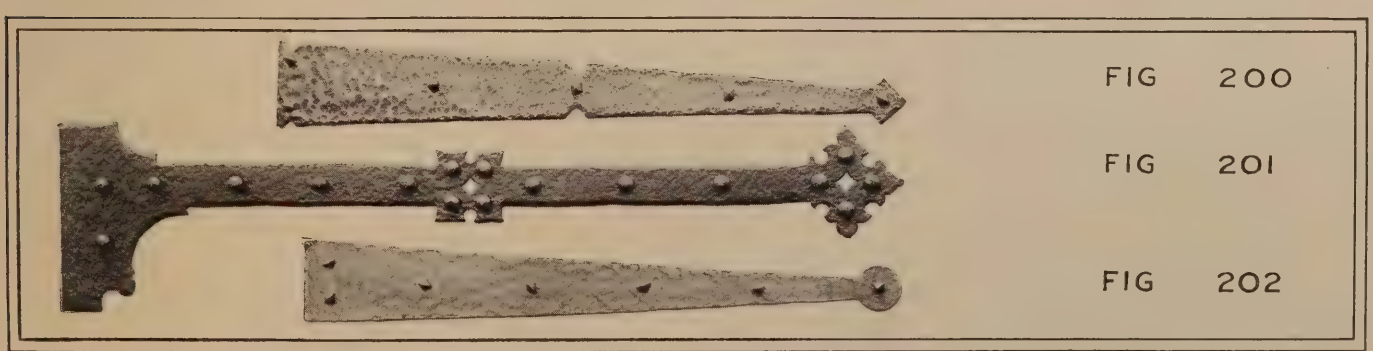






Knockers and Bell Plates





Some Examples of Wrought Iron Door Hinge Straps

For further details and literature, write to: **STANDARD IRON & WIRE WORKS, Chattanooga, Tenn.**

Welsbach Electric Lighting Fixtures

BRANCHES:
New York
Boston
Providence
Washington, D. C.
San Francisco

Manufactured by

WELSBACH COMPANY, Gloucester City, N. J.

BRANCHES:
Chicago
Cleveland
Cincinnati
Philadelphia
Pittsburgh
Columbus
St. Paul

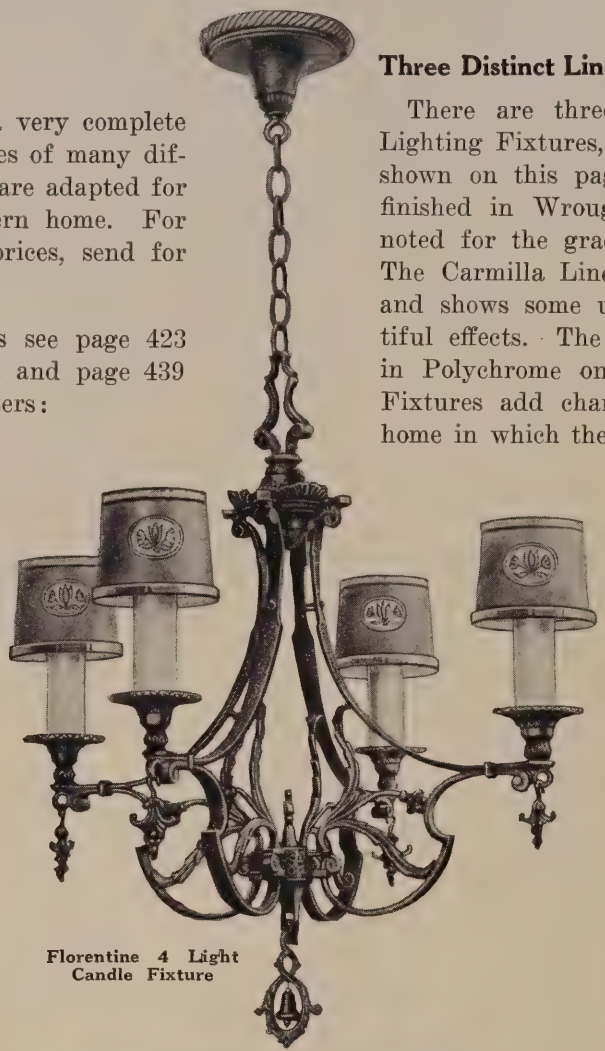
Product

This company manufactures a very complete line of Electric Lighting Fixtures of many different types and designs, which are adapted for use in every room of the modern home. For illustrations, descriptions and prices, send for complete literature.

For other Welsbach products see page 423 for Storage Gas Water Heaters and page 439 for Self-Lighting Radiant Heaters:

Three Distinct Lines

There are three distinct lines of Electric Lighting Fixtures, some examples of which are shown on this page. The Florentine Line is finished in Wrought Gold and Color and is noted for the grace and beauty of its design. The Carmilla Line is made of cast aluminum and shows some unusually striking and beautiful effects. The Dellarobbia Line is finished in Polychrome on cast aluminum. Welsbach Fixtures add charm and distinction to every home in which they are used



Florentine 4 Light Candle Fixture



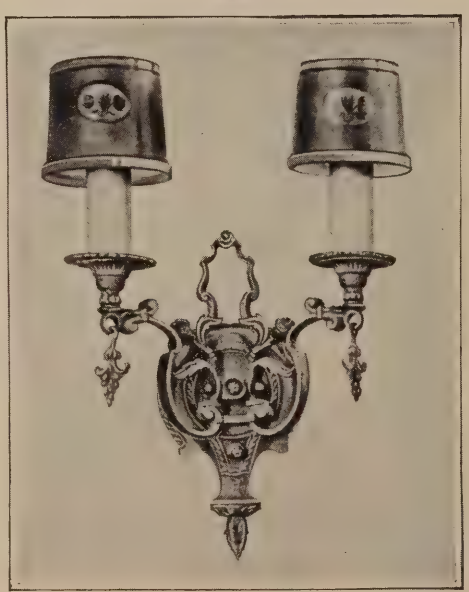
Carmilla 1 Light Drop Bracket



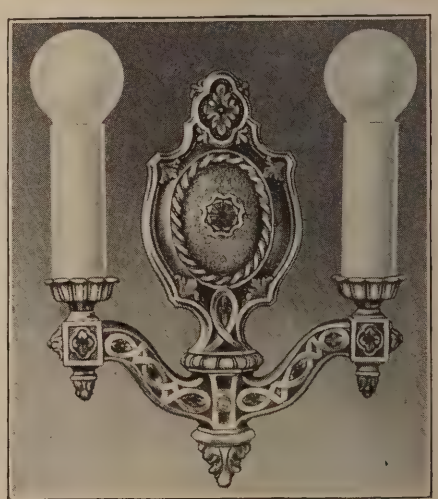
Dellarobbia 1 Light Candle Bracket



Carmilla 2 Light Candle Bracket



Florentine 2 Light Candle Bracket



Dellarobbia 2 Light Candle Bracket

For further details and literature, write to: **WELSBACH COMPANY, Gloucester City, N. J.**

AUTOMATIC DOUBLE DUTY REFRIGERATORS

Made by

ILLINOIS REFRIGERATOR COMPANY

Morrison, Illinois

Permanent Chicago Exhibit
Furniture Mart Bldg.

Permanent San Francisco Exhibit
Furniture Exchange Bldg.

Super Steel
AUTOMATIC
DOUBLE DUTY
saves food — chills water
USES LESS ICE
MORRISON — ILLINOIS

Permanent Dallas Exhibit
Southwestern Furniture Market

Permanent New York Exhibit
1261 Broadway

Products

WE MAKE REFRIGERATORS—NOTHING ELSE. We specialize in refrigeration—have done so for 34 years. We believe that our Automatic Refrigerators are the best that money can buy—you would expect us to say that—but let us give you convincing proof.

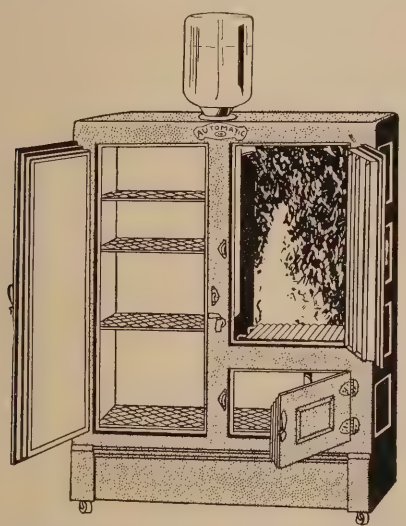
The "Double Duty" Feature

There is no wasteful chipping of ice for cool drinks in homes where Automatic Double Duty Refrigerators are used. A plentiful supply of ice-cold water is always on hand, and there is no additional expense for ice and no space taken from the refrigerator. The porcelain lined Cooler Tank, illustrated at right, fits into the partition between the ice chamber and the upper food chambers and an inverted water bottle *on top* of the refrigerator (see illustration below) serves as a water reservoir. A tap projecting from the front of the refrigerator furnishes Cold Water on the instant. Automatic Refrigerators are furnished with, or without, Water Cooler, but the Double Duty Type is generally preferred because of the convenience of having pure, cool, drinking water always on tap.

A Complete Line

Our Illustrated Catalog, a copy of which we will be glad to mail you on request, will convince you that you do not have to go outside of the Illinois Refrigerator Company's line to get any type of refrigerator you desire.

We make refrigerators enamel lined and porcelain lined—refrigerators designed for front, side or rear icing—refrigerators with Water Cooler or without. We gladly furnish complete blue prints showing size of the rear doors and end doors; also the proper sizes for the opening to make in the wall of your home. Automatics of all sizes can be used with iceless refrigeration units. We place four supports in the top of the ice chamber permanently to support that part of the unit.



No. 25E Automatic Refrigerator—Enameled with Water Cooler (can also be furnished without Cooler). Made in two types—3 Door, as illustrated, and 4 Door.

The "Twenty" Line

Numbers from 20 to 28, similar in appearance to No. 25 illustrated above, but differing in size. Even numbers without Water Cooler, odd numbers with Water Cooler. All sizes 20-29 are White Enamel lined.

	Width	Depth	Height	Capacity
20 and 21	32 in.	17¼ in.	43 in.	65 lbs. ice
22 and 23	35 in.	18¾ in.	45 in.	85 lbs. ice
24 and 25	37 in.	20⅛ in.	48 in.	115 lbs. ice
26 and 27	40 in.	22¾ in.	51 in.	150 lbs. ice
28 and 29	44 in.	24¼ in.	55 in.	190 lbs. ice

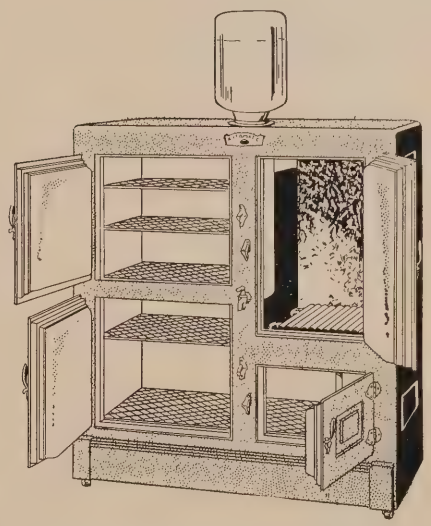
(Nos. 20 to 25—3 doors. Nos. 26 to 29—4 doors.)

Tested and Approved by the Department of Household Engineering Good Housekeeping Institute Conducted by 2054 Good Housekeeping Magazine

Good Housekeeping Institute has thoroughly tested Automatics, and highly recommends them as being medium-priced, very economical in ice consumption, a splendid food preserver; carefully and well built as well as sanitarily designed.



Water Cooler Before Being Placed in Box.



No. 35 Automatic Refrigerator—Porcelain Lined with Water Cooler (can also be furnished without cooler). Made in two types—4 Door, as illustrated, and 3 Door.

The "Thirty" Line

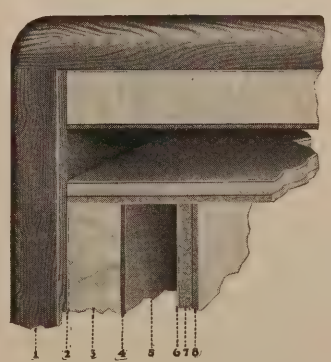
(Numbers from 30 to 37 similar in appearance to No. 35 illustrated above, but differing in size. Even numbers without Water Cooler, odd numbers with Water Cooler. Sizes 30-37 are Porcelain lined.)

	Width	Depth	Height	Capacity
30 and 31	35 in.	18¾ in.	45 in.	85 lbs. ice
32 and 33	37 in.	20⅛ in.	48 in.	115 lbs. ice
34 and 35	40 in.	22¾ in.	51 in.	150 lbs. ice
36 and 37	44 in.	24¼ in.	55 in.	190 lbs. ice

(Nos. 30 to 33—3 doors. Nos. 34 to 37—4 doors.)

Wall Construction of Automatic

Here is a picture that shows why there was still ice remaining in an Automatic refrigerator after the outside casing had been demolished by fire. Look at the insulation and dead air pockets provided for keeping the cold inside air in and the hot outside air out.



1—Outside case, ⅞ inch thick.
2—Rosin Sized Asbestos Sheathing, air-proof and moisture-proof.
3—Mineral Wool, the most efficient non-conductor of heat known, one inch of it, firmly packed.
4—Asphalt Sized Asphalt Sheathing, air-proof and moisture-proof.
5—Air Space—one inch of dead air.
6—Rosin Sized Asphalt Sheathing, air-proof and moisture-proof.
7—Inside Case, 5-ply Wood Fibre Board.
8—Metal Lining, Enameled; and in the finer grades of Automatics, Seamless, One-Piece Porcelain.

You don't find "The best on the outside" in the Automatic Refrigerators. The interior construction—the part you can't see and on which the efficiency of the refrigerator depends—is just as shown in illustration.

For further details and literature, write to: **ILLINOIS REFRIGERATOR COMPANY, MORRISON, ILL.**

McCray Refrigerators for Residences

McCRAY REFRIGERATOR SALES CORPORATION

Dept. B-55, Kendallville, Indiana

Salesrooms in All Principal Cities (See telephone directories)

McCray refrigerators for residences are distinguished by thorough, efficient and enduring service as well as extraordinary beauty, both exterior and interior. The same high type of McCray refrigerator service which is the standard of quality in hospitals, hotels, institutions, grocery stores and markets, is available for the home in a series of residence models of various sizes, some of which are illustrated and described on this and following pages. All McCray refrigerators are sold under the guarantee that each refrigerator must be exactly as represented or the purchase price and freight charges will be refunded.

Quarter-sawed Oak Exterior

Notice the handsome exterior appearance of the McCray porcelain-lined residence models illustrated here. The case is made of five-ply laminated wood with quarter sawed oak exterior. Both ends are flush with flush doors. Panels in the doors are set in solid oak.

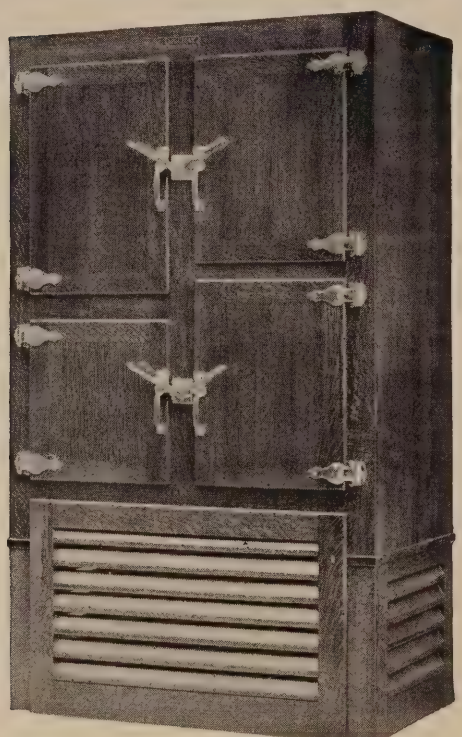
Interior of One-Piece Porcelain

The interior is one piece of porcelain. In all compartments there are no cracks or crevices and the corners are coved which makes cleaning easy. The interior lining is made of heavy Armco ingot iron welded into one piece on which the porcelain is fused at the terrific heat of about 1,800 degrees Fahrenheit.



This illustration shows the exterior of the McCray Residence Refrigerator No. 360, regarded as the finest appearing refrigerator on the market. Its efficient service matches this handsome appearance.

This snow-white porcelain not only covers the storage compartment but also the interior of the storage doors.



McCray No. 360 with machine base.

All McCrays May Be Used with Machine

All McCray refrigerators can be readily adapted for use with mechanical refrigeration when desired.

At the right is shown the McCray No. 360 as we supply it with base for use with machine refrigeration. If the machine is installed in the basement the base shown here is unnecessary.

White Enamel Line Less Expensive

The white-enamel-lined McCray residence refrigerators afford efficient service at less expense. The lining is of metal to which is applied three coats of white enamel, making a sanitary and attractive interior. The exterior is of furniture oak.

The outside icing door may be had with any McCray model, if desired. This convenient feature was orginated and developed by McCray.

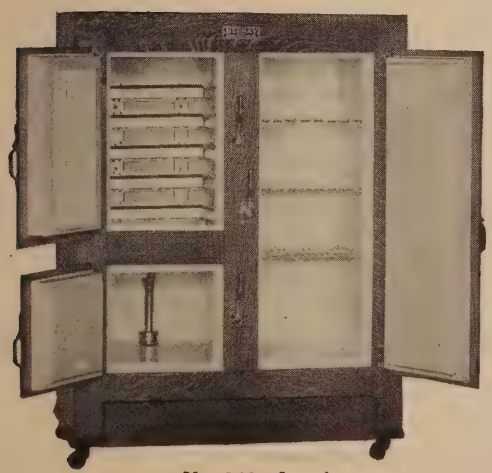
See Next Page for Specifications

For further details and literature, write to: **McCray Refrigerator Sales Corporation** Dept. B-55 KENDALVILLE, IND.

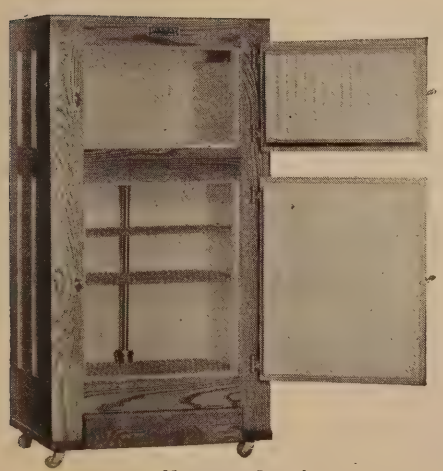
McCray Refrigerators for Residences (Continued)



No. 350—Interior
(Porcelain-lined)



No. 340—Interior
(Porcelain-lined)



No. 128—Interior
(Enamel-lined)

SPECIFICATIONS

PORCELAIN-LINED

No. 330

36″ wide, 22″ deep, 49½″ high. 3 shelves. 7 sq. ft. shelf space. 75-lb. ice capacity. 9.5 cubic feet entire interior.

No. 340

38″ wide, 23″ deep, 51″ high. 3 shelves. 8 sq. ft. shelf space. 95-lb. ice capacity. 11.5 cu. ft. entire interior.

No. 350

40″ wide, 24″ deep, 55½″ high. 5 shelves. 12 sq. ft. shelf space. 125-lb. ice capacity. 14.3 cu. ft. entire interior

No. 360

43″ wide, 26″ deep, 59½″ high. 5 shelves. 15 sq. ft. shelf space. 175-lb. ice capacity. 19 cu. ft. entire interior.

ENAMEL-LINED

No. M-128

28″ wide, 20″ deep, 54′ high. 7 sq. ft. shelf space. 70-lb. ice capacity. 8 1-' cu. ft. entire interior.

No. M-130

33″ wide, 20″ deep, 46″ high. 6.9 sq. ft. shelf space. 75-lb. ice capacity. 8¼ cu. ft. entire interior.

No. M-140

36″ wide, 22″ deep, 50″ high. 8.75 sq. ft. shelf space. 90-lb. ice capacity. 11½ cu. ft. entire interior.

No. M-150

39″ wide, 24″ deep, 54″ high. 13.9 sq. ft. shelf space. 130-lb. ice capacity. 15½ cubic feet entire interior.



No. 340—Exterior
(Porcelain-lined)



No. 140—Exterior
(Enamel-lined)



No. 130—Interior
(Enamel-lined)

Send now for complete catalog and detailed information

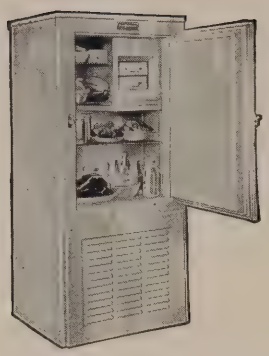
For further details and literature, write to: **McCray Refrigerator Sales Corporation** Dept. B-55 KENDALVILLE, IND.

FRIGIDAIRE ELECTRIC REFRIGERATION

Made by

DELCO-LIGHT COMPANY

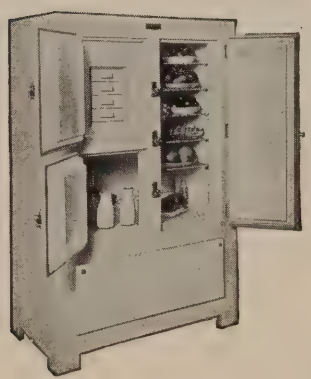
Dayton, Ohio



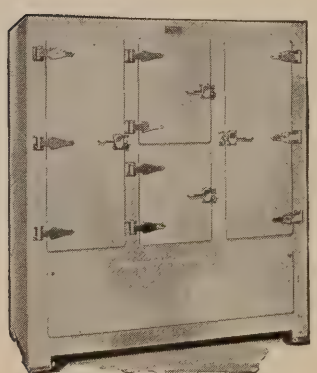
Model B-5-2 is ideal for apartments and small homes, especially rented homes. It preserves foods perfectly and reduces refrigeration costs.

Frigidaire Electric Refrigeration is recognized as standard equipment for modern homes, apartments, estates, hotels, and clubs. In the cold, dry, sanitary compartments of Frigidaire, foods are kept perfectly. Frigidaire eliminates the annoyance and inconvenience of daily icing. Frigidaire is entirely automatic. Install Frigidaire—and you can forget about refrigeration. Frigidaire is a product of General Motors and is made by Delco-Light Company, Dayton, Ohio. That fact, in itself, is a guarantee of mechanical excellence and long service.

Architects and specification writers may specify Frigidaire for important buildings and rest assured that their clients will enjoy perfect refrigeration—indefinitely. There are models of Frigidaire to meet every requirement. The booklet, *Information for Architects,* made to fit your files, gives detailed data. Send for it.



Model B-9 is made for the average residence. The food compartments are amply large, and a plentiful supply of ice cubes is assured.



Model B-15 is suitable for large residences, estates, clubs, restaurants, and hotels. Its food capacity permits the storage of large quantities and wide varieties of foods.

PRODUCT OF GENERAL MOTORS

Frigidaire

ELECTRIC REFRIGERATION

Specifications: Frigidaire Cabinets

Model B-5-2

Exterior dimensions: 59½ in. high, 26½ in. wide, 22 in. deep.
Interior dimensions: 31½ in high, 20¾ in. wide, 17 in. deep.
Total food storage capacity: 4.6 cubic feet.
Condenser: air-cooled.
Ice Making Trays: 2, producing 5.2 pounds, or 42 cubes of ice.
Compressor: single cylinder, reciprocating type, driven by ¼ h.p. motor.
Mechanical unit: enclosed in lower section of cabinet.
Motor: alternating current, 110 or 220 volts, repulsion induction.
Single phase, 25-30-50-60 cycles. Direct current 32, 110 or 220 volts.
Speed, 1,420 to 1,750 r.p.m., according to type of motor.
Cabinet: Sturdy construction; 1½ in. corkboard insulation. Exterior, smooth surface ply-wood, finished in white enamel.
Weight: 338 pounds.
Shipping weight: 458 pounds.

Model B-5

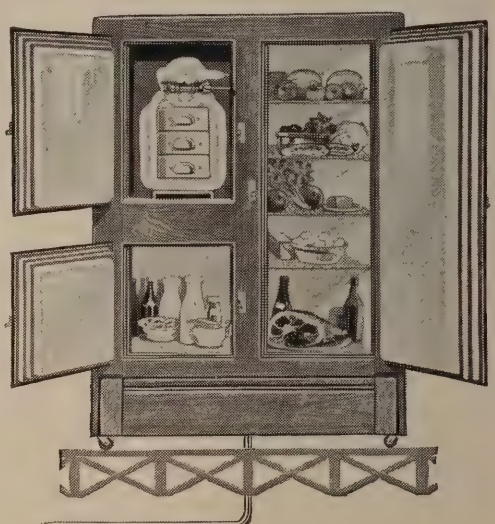
Exterior dimensions: 61 in. high, 31¾ in. wide, 27 in. deep.
Interior dimensions: food compartments—lower, 23⅞ in. wide, 15⅞ in. high, 18⅝ in. deep. Upper, 9 in. wide, 15 in. high, 18⅝ in. deep.
Total food storage capacity: 5.5 cubic feet.
Condenser: water-cooled.
Ice Making Trays: same as B-5-2.
Compressor: twin-cylinder, reciprocating type, driven by ¼ h.p. motor.
Mechanical unit: enclosed in lower section of cabinet.
Motor: same as B-5-2.
Cabinet: sturdy construction; 2 in. corkboard insulation; exterior shell made of 5-ply laminated wood. Finish: ivory, white enamel, natural. Compartment lining, white porcelain enamel on steel.
Weight: 695 pounds.
Shipping weight: 870 pounds.

Model B-9

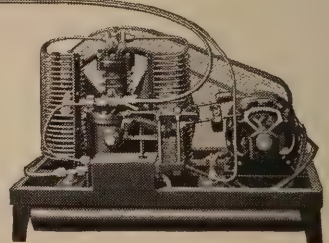
Exterior dimensions: 67 in. high, 39 in. wide, 27 in. deep.
Interior dimensions: large food compartment—38¾ in. high, 14¾ in. wide, 18½ in. deep. Small compartment—15¼ in. high, 16½ in. wide, 18½ in. deep.
Total food storage capacity: 9 cubic feet.
Condenser: water-cooled.
Ice Making Trays: 4, producing 12 pounds, or 96 cubes of ice.
Compressor: same as Model B-5.
Motor: same as Model B-5-2.
Mechanical unit: enclosed in lower section of cabinet.
Cabinet: same construction details as Model B-5.
Food compartment temperature control: damper located in passage between cooling unit, and food compartment, controls circulation of air.
Weight: 835 pounds.
Shipping weight: 1,100 pounds.

Model B-15

Exterior dimensions: 67 in. high, 59 in. wide, 27 in. deep.
Interior dimensions: large food compartment—38¾ in. high, 14¾ in. wide, 18½ in. deep. Small food compartment—15¼ in. high, 19¼ in. wide, 18½ in. deep.
Total food storage capacity: 15.5 cubic feet.
Condenser: water-cooled.
Ice Making Trays: same as Model B-9.
Compressor: same as Model B-5.
Mechanical unit: enclosed in lower section of cabinet.
Motor: same as Model B-5-2.
Cabinet: integral frame construction: 2 in. and 3 in. corkboard insulation; shell, 5-ply laminated wood; finish, ivory, white enamel, or natural; lining, white porcelain enamel on steel.
Weight: 950 pounds.
Shipping weight: 1,440 pounds.



This illustration shows how any of the standard makes of iceboxes may be converted into a Frigidaire electric refrigerator. The frost coil is placed in the ice compartment; the compressor in the basement or other convenient location.



For further details and literature, write to: **DELCO-LIGHT COMPANY, Dept. O-3, Dayton, Ohio**

Kelvinator Electric Refrigeration

Manufactured by

KELVINATOR CORPORATION

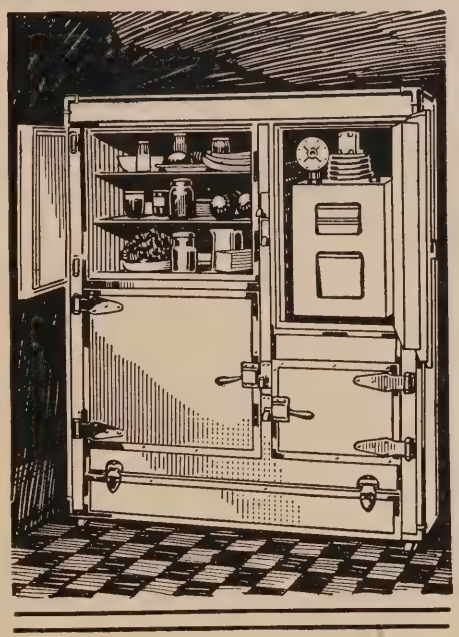
DETROIT, MICHIGAN

Two Important Features

Two features of Kelvinator, the oldest domestic electric refrigeration, are of exceptional interest to home builders or owners.

First—the Kelvinator line is complete. Standard units are carried in stock everywhere for either small or large household refrigerators. The self-contained unit—Kelvin-et—combines both Kelvinator and refrigerator, all in one, the only installation required being an electric connection.

Second—Kelvinator is made by the pioneer manufacturer and is the oldest product of its kind. It has years of public approval behind it. Installations made from five to ten years ago are as efficient now as ever.



The Condenser and Compressor

(See illustration below)

This is the mechanism that is found in the basement or any other convenient place and which supplies the freezing unit with a cold producing refrigerant. The condenser consists of a coil of one-half inch seamless copper tubing wound spirally in a rectangular shape and is air cooled. The compressor is of the reciprocating type having one cylinder for the smaller models and two cylinders for the larger models. It is driven by a V-belt with no idler.

A Typical Kelvinator Installation

Kelvinator consists of two parts. The first is the freezing unit that fits inside the ice compartment of the refrigerator. The second is a motor driven compressor and condenser that usually goes in the basement but can be installed in any convenient place.

These two units are connected by two tubes through which the refrigerant passes. A thermostat on the freezing unit regulates the temperature, automatically starting the compressor when the temperature in the refrigerator rises, stopping it when the proper temperature is attained.

The Freezing Unit

The freezing unit is placed in the ice compartment. Freezing units are made in twelve sizes and shapes, there being a model for every standard make of refrigerator. Specially designed units are also available, being made to order.

Temperature Control

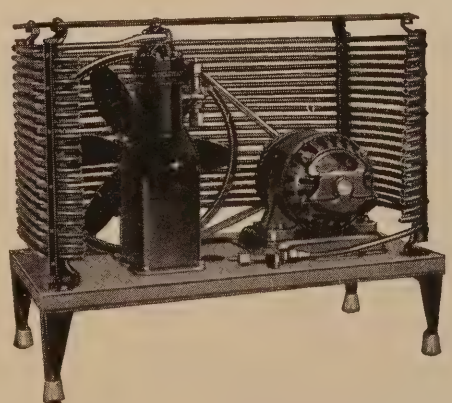
The temperature of the refrigerator is automatically regulated by a thermostat and expansion valve which have been developed by Kelvinator and refined over a period of years. It is the most accurate and durable device of its kind made, and constitutes an important Kelvinator feature.

The Kelvin-et

The Kelvin-et, selling for $250, F. O. B. Detroit, is a self-contained refrigerating system combining Kelvinator and refrigerator all in one. The compressor and condenser are in the base of the cabinet. The Kelvin-et is designed for small families living in apartments or in small homes where space is a consideration.

Kelvinator Freezes Cubes of Ice

The trays in the freezing unit can be filled with water and cubes of pure ice will be frozen for chilling beverages or other table purposes. These trays can be used for making frozen desserts, salads, frappes, chilled fruits and many other delicacies.



Responsibility

Kelvinator is made by a long established manufacturer and sold by the best dealers in every community. Each dealer has a factory trained service man and is in a position to render prompt and immediate service on every Kelvinator he installs.

A Message to Home Builders

By

THE GREENING LANDSCAPE COMPANY

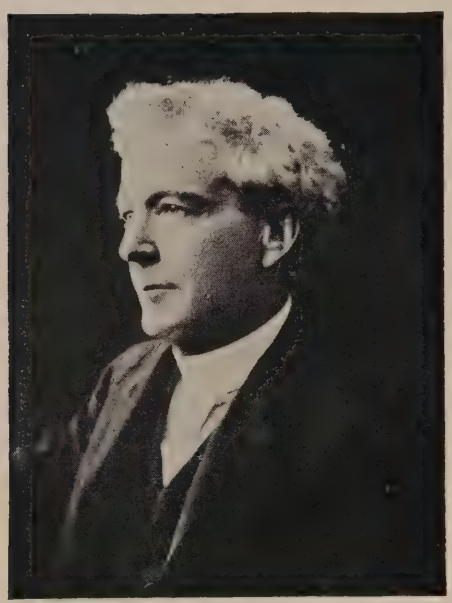
A subsidiary of

The Greening Nursery Company

MONROE, MICH.

Born 1850 — Still Growing

LARGEST GROWERS OF TREES IN THE WORLD



Luther Burbank says:

"Homes without trees and flowers are merely dog kennels or dry goods boxes, which we know sometimes deface the landscape. When we see flowers and trees about a place we know that somebody lives there."

Luther Burbank

A Dry Goods Box Versus a Home

Why build a house and leave its walls bare, standing year after year exposed to the bleak winds of winter unadorned, unattractive and forbidding, when

For a Small Sum You Can Beautify

it and so enframe it that its setting invites and appeals as a real home in which "somebody" lives who appreciates nature's gifts?

Planting About Your Home Enhances Its Value in Every Way

Don't you know that the same sun and rain which cause depreciation of your buildings is the very life of trees and plants, and cause them to depreciate in value from year to year? No matter, whether the house you build is for your personal use; or to be rented or sold; a proper planting about it increases its desirability as a place to live and thus is an asset in making it a home; an aid in renting and a help in selling.

The Selling Value of Your House Is Fifty Per Cent Higher When Planted

These are facts which are conceded by every Real Estate dealer and by all bankers and others who make loans on real estate, or have anything to do with handling it for purposes named.

Aren't you aware that when compared with cost of interior fittings the sum required to plant a place is very little?

These facts can't be denied and because of mankind's universal love for natural beauty we are here with an offer to serve you by designing

Individual Layouts

for beautifying the grounds about your house!

For further details and literature, write to: **THE GREENING LANDSCAPE CO., MONROE, MICH.**

A new house of excellent architecture, but note how harsh, how stiff —how cold and unwelcome with no expression of comfort or restfulness! Merely a good house. Note the great transformation shown in cut below after planting.



Our Architects Work With You—Your Preferences Are Considered

In this way by working together, we can give you an unexcelled service, as each and every one of our designers is a graduate Landscape Architect, whose entire time is devoted to studying tree, plant and shrub, and how they should be placed in relation to each other and with the house to properly accentuate its beauty and to cover its defects should there be any.



Where are the stiff harsh lines? Isn't this more appealing, more beautiful, more home-like and more restful? Imagine yourself seated on the porch in No. 1 and then contrast it in your mind with sitting on the porch after planting in No. 2! You are now in a real home. You can fully relax and be proud of the opinion of those who pass your place.



Small house about which a porch planting would add dollars to its value as a home and much beauty

We Give Personal Service

The service we give you is personal. We can handle small jobs by mail as effectively as if we were with you on the grounds in person. The requirements are simply these: You locate the house on the lot with distances from front, sides and rear lot line on especially prepared paper we furnish you for the purpose and upon which is plainly stated the details and data we must have to proceed. In addition to this you must send snapshots or photographs taken from the front, sides and rear, and we will then go ahead and submit you a pencil sketch for your consideration.

We Consider No Sale Complete Unless You Are Satisfied

Our service will always be satisfactory because of the skill and experience of our Architects and because we consider no sale complete unless you are satisfied.

We can satisfy *you,* too, and the cost is very low when it is *not* necessary to send an Architect to personally inspect, measure and study the location.

We at all times value your suggestions and a statement as to preferences should be sent in with the measurements and photographs.



Here is shown the small house above two years after planting, the cost of which was $20.00. Could you spend $20.00 anywhere in your home and get half as much for your money? Planting is a permanent asset.

For further details and literature, write to: THE GREENING LANDSCAPE CO., MONROE, MICH.



The house is built, but does it look or feel like home? Isn't it as Luther Burbank says "Merely a dry goods box?" The dormant shrubs and plants heeled in as shown in the picture represent a rather small sum of money, yet note the transformation after planting below.

We Make It Possible for You to Get Our Service Without Cost

We furnish complete plans and specifications—the plan drawn to scale and the exact spot each tree, shrub and plant should be placed as indicated so that you can plant them yourself if you wish to do so.

Full instructions on how to plant and care for the stock goes forward with the plans and specifications. For these plans, etc., we make a small service charge should you decide not to buy the stock from us. The scale of charges for plans, etc., if order is not placed will be given you if you are interested.

But you get our service, experience and skill in design without any cost whatsoever when order is placed with us.

We are at your service, and would be pleased to go into details with you when you are ready to consider the beautification of your home.

What a small expenditure has yielded in beauty and enhanced value of property is shown by this cut! It has now been truly converted into comfortable living quarters. Then, too, there is a great amount of pleasure in watching the development of plants and trees. Flowers for the table in great abundance—the joys and bliss of a new home fully realized.



Surveying Instruments and Drafting Room Supplies

NEW YORK BLUE PRINT PAPER COMPANY

102 Reade St., New York City

Branch Offices and Supply Depots:
Pittsburgh, Pa., 433 Liberty Ave.
Detroit, Mich., 150 Larned Street
Miami, Florida, 410 N. E. 2nd Ave.

Manufacturers, Importers and Jobbers of Engineering, Builders, Architects, and Draftmen's Supplies, Instruments and Equipment

Exclusive Agents in New York, Chicago and New Jersey for C. L. BERGER & SONS ENGINEERING INSTRUMENTS

Chicago Office:
American Blue Print Paper Company
445 Plymouth Court, Chicago

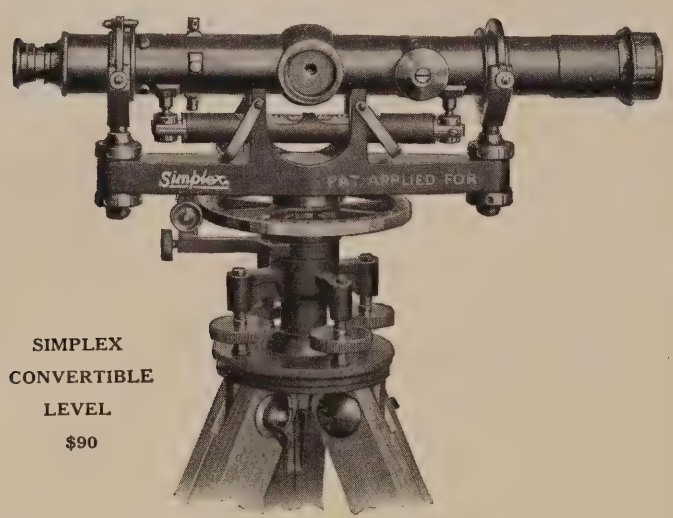
Products

This company carries at its various offices listed above a complete line of Surveying Instruments and Drafting Room Supplies—Blue Print Paper, Tracing Cloth, Drawing Paper, (both plain and ruled) Drawing Instruments and, in short, everything required for producing and reproducing plans of every kind.

NYB

TRADE MARK

We are also prepared to furnish promptly copies of any plans, either Blue Prints or Brown Prints, or Blue or Brown Line on White Background. Our prices on this work are very reasonable owing to our modern printing equipment and the fact that we manufacture our own Sensitized Papers.



SIMPLEX CONVERTIBLE LEVEL $90

Levels for Building Contractors

A good Level will pay for itself many times over in the course of one building season. With it you can determine accurately the rise and fall of the ground before leveling, or excavating, for foundations, eliminating all guess work as to the number of cubic yards of earth to be moved.

You can run lines that are absolutely true and can verify in a moment the corrections of all angles. You can plumb walls and use it for laying out ditches, drains and roadways. In short, you will find use for a good Level a dozen times a day.

These Simplex Levels of ours do not require engineering knowledge on the part of the user. The simple directions that accompany them will enable one of your workmen to use a Simplex Level with perfect accuracy. All danger of error is eliminated when you use a scientific instrument to level ground and plumb walls. You will find a Simplex Level one of the best investments you ever made. Prices from $25 to $90.

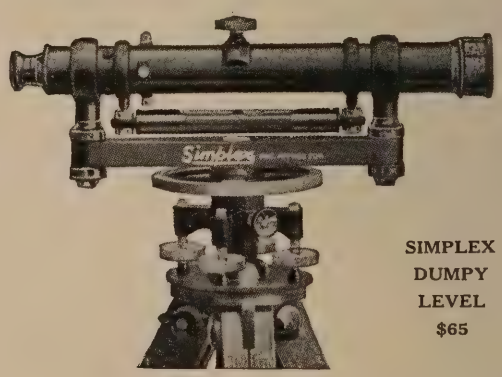
Simplex Convertible Level

This is our finest instrument. Beautifully built yet rugged enough to stand rough handling without injury. Can be converted in less than a minute from the horizontal to the vertical position, enabling you to true vertical lines as well as horizontal ones.

Twelve-inch Telescope with powerful, extra fine lenses. Magnifying power 25 diameters. Enables sighting up to 600 feet. *Spirit Level* protected from injury in both the horizontal and vertical positions. Accurately graduated in degrees and minutes. *Leveling Head* of improved design with four large leveling screws. Cross Bar, Standards, and Leveling Head made of bell metal, the very best material for the purpose, insuring unusual strength and rigidty. Solid leg, white ash Tripod with iron shoes and protection cap to head. Bolts provided with wing nuts for tightening by hand. Polished hardwood Carrying Case with strong strap and lock. Six-ounce Plumb-Bob, Trivet (for foundation work) Sunshade and Adjusting Pins. A splendid instrument —Full instructions for use with each Level. Price complete, $90.

Simplex Dumpy Level

This has the same Telescope and many of the other parts of the Convertible Level described, but is not convertible from the horizontal to the vertical position. If horizontal leveling only is desired this is the instrument to use. Has same Tripod and carrying equipment as the Convertible Type and costs $65.



SIMPLEX DUMPY LEVEL $65



Simplex Carpenter's Level

Sometimes called the "Simplex Farm Level" owing to its wide use in rural districts for laying out ditches and drains, road leveling, and plumbing foundations of barns and other farm buildings. The sturdiest, most practical leveling instrument ever made to sell at the low price of $25. Has 10½-inch Telescope; Drawer Eye Piece, graduated to degrees; Revolving Index Arm, Leveling Screws and Spirit Level, attached to Telescope. Complete with Carrying Case, Tripod, Plumb Bob, and 12½ foot Flexible Rod. Price only $25.

Leveling Instrument Accessories

We carry in stock for immediate delivery a complete line of accessories such as Plumb-Bobs, Leveling Rods, Ranging Poles, Rod Ribbons, Steel Tapes, Tripods, etc.

Everite Blue Print Paper

The trouble with most Blue Print Paper is that it rapidly deteriorates, particularly in hot weather. "Everite" is the one paper you can rely on to be as good in six months or a year as the day you bought it. We experimented with an infinite number of formulas before we hit upon the combination of chemicals used in coating "Everite." But it was worth the trouble and expense.

"Everite" is the blue-print paper you can rely on—absolutely. It is practically impervious to heat and moisture and consequently can be carried in stock for months, in any climate, without serious impairment of its excellent reproducing qualities. It not only gives sharper detail and better contrast, but positively *will not fade*, if sufficiently washed.

Everite Blue Print Paper is made in three weighs:

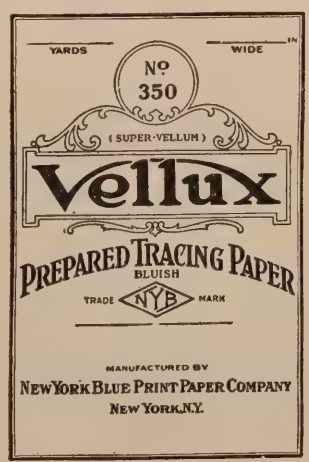
No. 70—THIN
No. 110—MEDIUM
No. 125—THICK

and is coated for three printing speeds:

R—Rapid Printing for sun, or slow electric printing
X—Extra Rapid Printing, the grade used by the majority of consumers
XX—Double Extra Rapid Printing, an exceptionally fast paper.

We shall be glad to send you on request a 2-yard working sample of "Everite," so that you can judge for yourself, its excellent qualities.

Vellux—the Odorless Tracing Paper



Open a roll of ordinary Tracing Paper and in a few minutes the room is filled with the odor of the volatile chemicals used in manufacturing it—and it isn't a pleasant smell either. We have developed a formula for producing a snowy white, transparent, vellum-like tracing paper, with the smell left out. We call it "Vellux," and our customers call it "the best Tracing Paper we have ever used." Vellux will not turn yellow nor brittle with age. Make your tracings on Vellux and you will always have a white, transparent and durable paper that will give you sharp, clear blue-prints.

Made in two weights:

No. 350 —MEDIUM
No. 350T—THIN

Samples mailed on request.

Our Big 384 Page Catalog

Containing full particulars and prices on Surveying Instruments and Drafting Room Supplies and equipment will be gladly sent to any building contractor requesting it.

Blue Print Service, Drawing and Surveying Materials

of

EUGENE DIETZGEN CO.

166 W. Monroe Street, CHICAGO

OTHER BRANCHES

New York, Pittsburgh, San Francisco, Philadelphia, New Orleans, Washington, Milwaukee, Los Angeles

Factory at Chicago

Contractors' and Builders' Supplies and Equipment



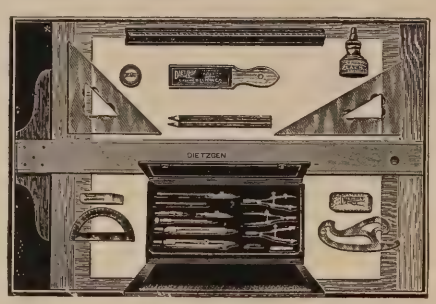
Shamrock Drawing Table 4460-D

The Shamrock Adjustable Drawing Table is substantially constructed of hard wood with fine quality pine drawing board. Folds compactly for putting away when not in use.



Builders Level 6380

Every contractor should own and use a Dietzgen Builder's level simplifies many building operations—and performs the work accurately.



Complete Drawing Outfits 1100 A B C D E

Complete Drawing outfit designed for use of contractors and builders for making and altering plans. Full instruction book for its use furnished free.

24 HOUR BLUE PRINT SERVICE

Twenty-four hours or less from the time we receive your drawings or tracings your order for blue prints will be on its way to you.

Every Dietzgen branch is fully equipped with modern blue printing machinery—capable of performing your work quickly and economically.

Instructions are followed accurately and you may be sure that Dietzgen blueprints will outwear the roughest usage on the job or in the office.

Deep permanent blue prints—with sharp distinct lines—our specialty.

Send your next order to your nearest Dietzgen branch.



Reliance Steel Tape 5202-C

Dietzgen steel tapes are the standard for all measuring work. Reliance steel tapes in strong leather cases are especially recommended for contractors and builders.

Dietzgen drawing paper, Edco Cream and Edco standard are quality papers at moderate prices.

For further details and literature, write to: **EUGENE DIETZGEN COMPANY,** 166 W. Monroe St., CHICAGO, ILL.

COMBINATION BRANDING IRON

COMBINATION BLOW TORCH MFG. CO.,
2807 W. Van Buren Street
CHICAGO, ILL., U. S. A.



We Are the Originators and Sole Legal Manufacturers of the Combination Branding Devices

Patented

Nov. 28, 1922—1436677
March 18, 1924—1487359
Feb. 24, 1925—1527269
Feb. 24, 1925—1527270
Nov. 17, 1925—1562047

Other Patents Applied For

Brand your name on every garage you build and it will be a continuous advertisement for you as long as the building will last.



Branded Tools Will Stay With You Until They Wear Out

Cement Marking Stamps

We also make cold brands for marking contractor's name, address and date in cement work. Send rough sketch with dimensions for estimate.



Standard Torch, No. 750

Better Built Torch

It burns in rain or snowstorm while others fail to.

Handle 100 per cent cool at all times, which prevents the burning of fingers.

Self-cleaning needle valve, non-pierceable seat.

Pump is outside of gasoline range so that it cannot dry out leather washer.

Gasoline container has only one opening which is on top of the torch. In the event that filling cap is not properly tightened, air and not gas will escape.

Price $7.50



Trade-Marks Reproduced

We Make Drawings and Designs Free of Charge

Write for Particulars

For further details and literature, write to: **COMBINATION BLOW TORCH MFG. CO.** 2807 Van Buren St., CHICAGO, ILL.

Ajax Folding Metal Sheathing & Roofing Brackets

Manufactured By

AJAX BUILDING BRACKET COMPANY

1551 Rydal Mount Road—Cleveland Heights, Ohio

Production

Ajax Folding Metal Sheathing and Roofing Brackets are used to apply both Sheathing Boards and Roofing Materials.

The most sensationally popular Bracket Equipment ever offered for roof work, in the United States. Patented February 2, 1915, nearly every carpenter and roofer approached wants to try the "AJAX" because it appears to be his idea of a practical roof staging.

Two-Fold Use

Carpenters use Ajax Brackets, first to apply the sheathing boards to rafters; then, to apply roofing materials to sheathing boards.

Roofers use Ajax Brackets to apply all sizes Slate, Tile, Asbestos, Asphalt, Metal and Wood Shingles, etc.

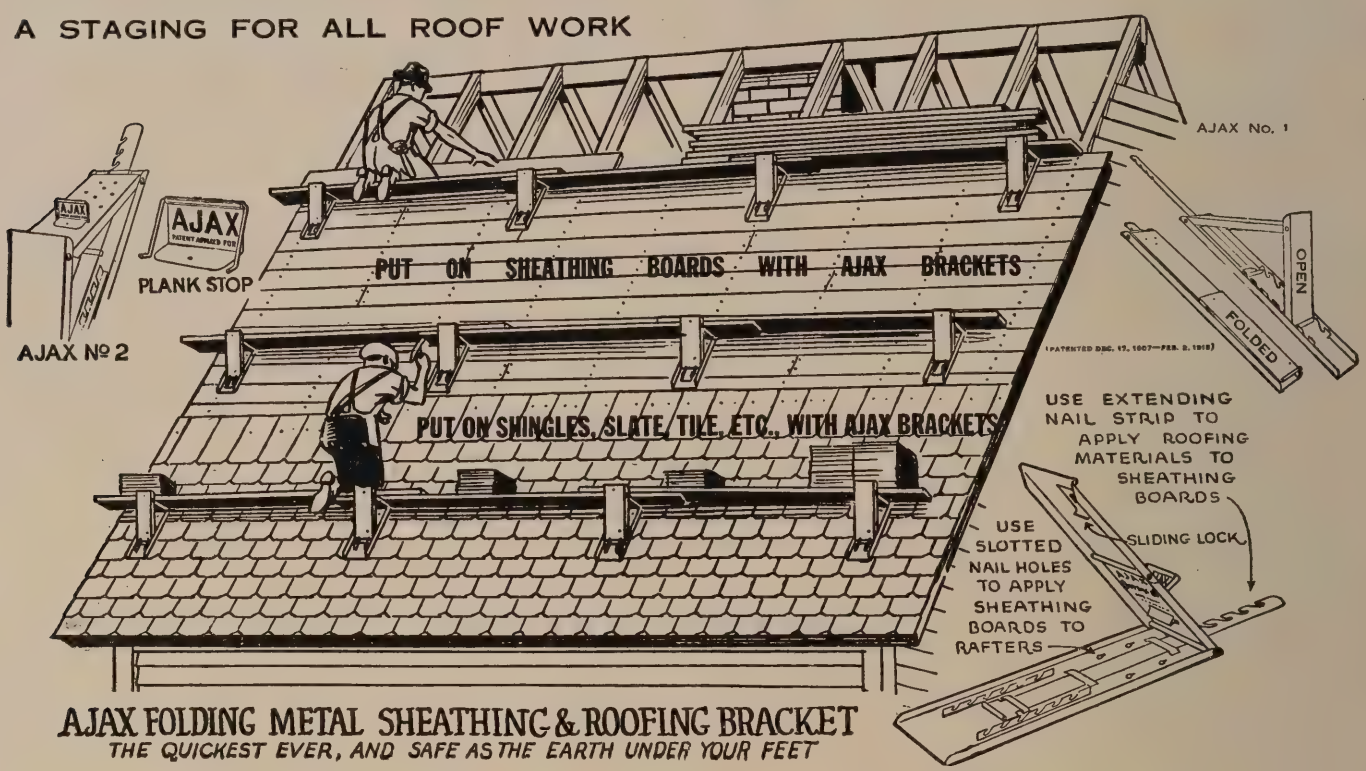
To Apply Roofing Materials drive one or more supporting nails into notches of extending *Nail Strip.* (See illustration).

Place Brackets six to eight feet apart on roofing laid from cornice upward, so their upper end will be one inch or more below the butt of next course of roofing to be laid over extending Nail Strip; this will allow for unhooking. (To apply SPANISH TILE drive supporting nails into four slotted holes in body of Bracket).

To Remove lock upright section into pair of notches immediately below heel of nail strip; then push upwards to unhook and pull from beneath roofing course.

Special Features

Plank Stops retain a 2x4, 2x6 or 2x8 firmly against the roof. Practical men like them. Easily attached and detached. (See illustration.)



How Made

Ajax Brackets are made of 16 and 18 gauge galvanized metal and all the die-cut stamped parts are scientifically riveted together. Boards or planks up to 12 inches wide can be used thereon. GUARANTEED to carry any weight the workmen may pile on.

How Used

Instantly Adjustable to any pitch roof. *Ajax Brackets* lock, with a Sliding Lock, into notched strips in open position ready for use. (See illustration).

To Apply Sheathing Boards, drive supporting nails into *four slotted holes in body of Bracket.* (See illustration.)

Speed and Safety

To sheath and roof with make-shifts or scant 2x4s is wasteful in time and materials, and is extremely dangerous.

Ajax Brackets, attached as the sheathing or roofing work advances, afford *speed* and *safety.*

How Furnished

Ajax Brackets fold compactly for convenient handling and storing in specially made crates. Each crate contains the minimum equipment of one dozen Brackets.

Style No. 1 *Ajax Folding Brackets* without Plank Stops.

Style No. 2 *Ajax Folding Brackets* with Plank Stop.

"Reliable" Scaffold Brackets

Made by

ELITE MANUFACTURING CO.

Ashland, Ohio

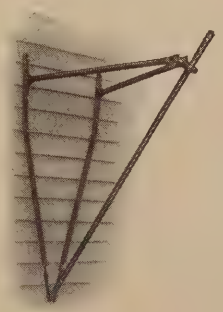


"Reliable" Brackets will carry your heaviest loads in safety. The heavier the load placed on them the firmer they brace against the building. They are the best sort of insurance against accident to your workers.

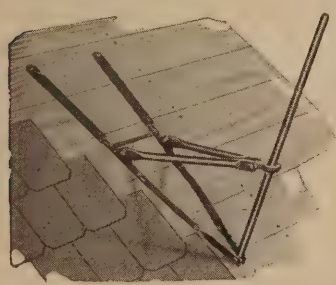
Products:

This company makes "Reliable" brackets for supporting staging used in building construction. They are made in various types and sizes for different classes of work and fold compactly when not in use for easy transportation and storage. Carefully built of heavy steel and pipe they last for years with proper care. They save time and lumber when erecting scaffolding. Sold on the satisfaction-guaranteed-or-money-back basis. Also make the old "Hook Style" bracket but recommend bracket illustrated on account of its greater convenience, wider usefulness and satisfaction. Send for literature.

Reliable Scaffold Bracket:



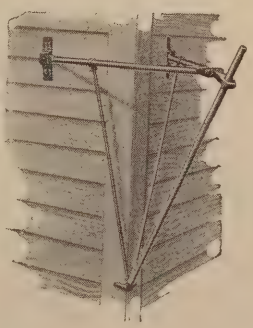
This bracket is easily and quickly hung, a hammer and four nails being the only things necessary. There is no loss of time nor waste of lumber. Drive four nails so that heads project about half an inch from studding at about a 45 degree angle. Hang brackets with nails through countersunk slots near top. They seat securely without sidesway or wobble. The clutch grips the long slanting pipe securely without slippage. The heavier the load the tighter they grip. To remove bracket simply lift off from nails and drive them home —no holes to plug. Use on stucco, brick veneer, or any construction equally well. Two sizes—3 and 4 feet long. Weights, 18 and 25 pounds.



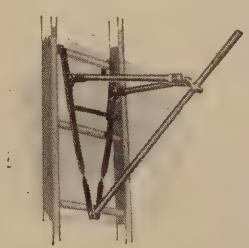
Reliable Roofing Bracket:

This is made on the same principal as bracket above with necessary changes in construction for roof work. It is adjustable to any pitch of roof, folds compactly for transportation or storage. Weighs 13 pounds. We also make the "Roofer" a one-pound iron with countersunk nail slot at upper end and U-bend at lower end — a handy little tool for small jobs and light work.

Reliable Corner Bracket:



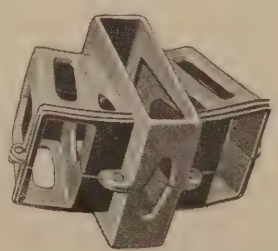
This was developed to take the place of two regular Scaffold Brackets as it has sufficient spread to attach to studding or wall on either side. Note the different method of attaching, using eight nails instead of four. Some builders prefer this type for corners while others use our regular type of bracket one on either side near corner. Either method is good. Length 4 feet; weight 20 pounds. Folds compactly.



Reliable Ladder Bracket:

This fills the demand for a *real* ladder bracket. Can be hung on inside or outside of ladder. The deep hooks lock it securely into place and it is adjustable to any angle. Folds when not in use. Weight 14 pounds. Sold by the pair.

Reliable Trestle Bracket:



Fills a long-felt want for an adjustable trestle. Height and length of trestle only limited by length of timber used. Attaches quickly and securely. Disassembles instantly and packs compactly for transfering to another job. Made of malleable iron. Sold in sets of four. Sets weigh 35 pounds.

For further details and literature, write to: **ELITE MANUFACTURING CO., ASHLAND, OHIO**

JAEGER Tilting-Drum CONCRETE MIXERS

Manufactured by The Jaeger Machine Co.

720 Dublin Road :: Columbus, Ohio



JAEGER makes a complete line of 36 Concrete Mixing Outfits. Ranging in capacity from 3 to 21 cu. ft. of unmixed material they include the correct size for any requirement. Jaeger has the largest factory in the world building concrete mixers exclusively. And Jaeger Mixers are famous for "built-in" quality and dependable performance.

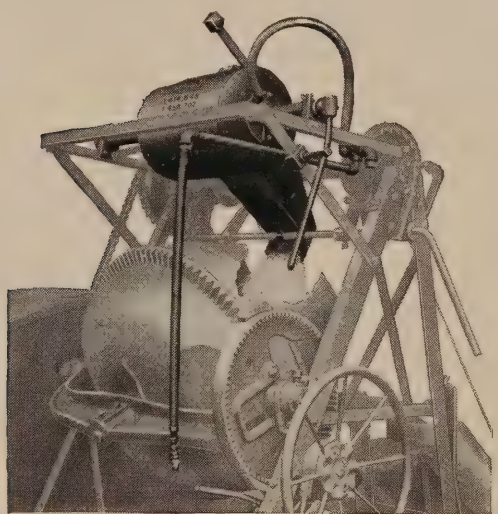
The Jaeger 5-L:

The illustration here shows the Jaeger 5-L—the economy mixer for all jobs of average size. It has just the right capacity for a full sack batch of 1—2½—4 proportions, or 5 cubic feet wet mixed concrete. The 5-L is a complete mixing plant equipped with power loader, Patented Jaeger Tip-Over Water Tank and the Semi-Automatic Gravity Discharge Device. Can be furnished with steel wheels, or pneumatic or cushion tires. A time and labor saver with a surprisingly low operation cost.

Other Jaeger Models:

Jaeger Mixers of this capacity can be furnished with one or two cylinder engines with hoist (of cone clutch design) as Jaeger 5 H-1 and 5 H-2. Also supplied without Loader or Water Tanks, but with hoist as 5 A-1 and 5 A-2 or on skids as Jaeger 5 M.

If larger capacities are desired the Jaeger Sevens, Tens and Fourteens can be supplied with the same equipment and labor saving features as the 5-L. The broad Jaeger guarantee is back of every mixer that leaves our plant. They comply with regular A. G. C. standard rating capacities and deliver effective, profit-making service under the hardest conditions.



The Patented Jaeger Water Tank:

No other mixer made is equipped with this exclusive patented Jaeger feature. It automatically measures out and discharges exactly the correct amount of water for the mix. A great aid to rapid production.



Jaeger 3½ L-CT

Here is a half-sack mixer with power loader, gravity discharge and automatic water tank. The smallest complete mixing plant made.

Jaeger "A MIX A MINUTE"

For further details and literature, write to: **THE JAEGER MACHINE COMPANY** 720 Dublin Avenue COLUMBUS, OHIO

Koehring Construction Mixers

Built to Comply with A. G. C. Standards

Manufactured by

KOEHRING COMPANY

Milwaukee, Wisconsin

For Gasoline Shovels See Page 494

Dandie Light Mixer:

The Dandie is a dependable light mixer of staunch construction, and exceptionally fast operation in getting materials into and out of the mixing drum. It is designed to serve the contractor in all concrete work where a mixer of one bag capacity is the desired size.

Koehring speed in charging and discharging increases the number of batches per day, giving an additional profit-margin. One-man control allows one man, without leaving his position, to raise the charging skip by operating the clutch with one hand and to discharge a batch of concrete with his other hand. This arrangement eliminates an extra man and in addition permits faster operation through centralized control.

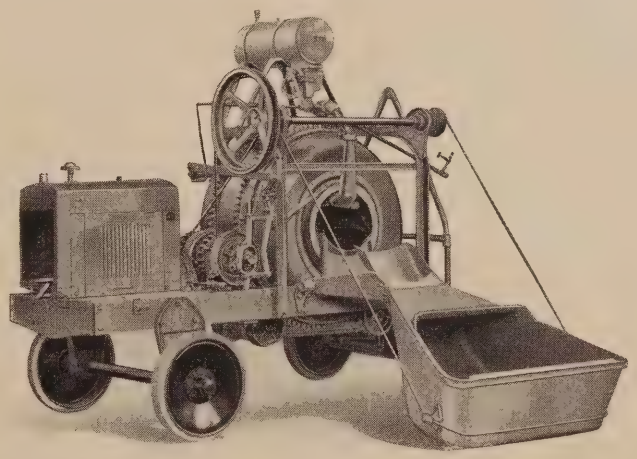
In foundation work and footings, pouring walls, floors, and sidewalks, where each job is short and frequent moves are necessary, the Dandie again makes a big saving in time. With rubber tires, disc wheels and three point suspension type of front axle, it is easily and quickly moved. Just hitch the Dandie to your car or truck and you are soon ready for the next job.



Dandie Pouring Concrete for Foundation Work

Dependable Features of Koehring Dandie Construction.

The gears of the power transmission unit are completely enclosed and operate in oil. The combination flexible coupling and disc clutch, which are connected to a chrome nickel steel worm shaft, are other units designed for long service life.



Dandie One Bag Mixer with High Speed Charging Skip

The channel frame of pressed steel has four cross members and two auxiliary members in addition to the side channels.

The mixing drum, which is built to give the Koehring re-mixing action, is a narrow type with large diameter and double gear drive, providing a fast discharge.

Long bearings between the drum rollers assure ease in operation and eliminate unnecessary wear.

Pressed steel disc wheels with rubber tires aid the contractor to speed up his work. Attached to a truck, the Dandie moves quickly and easily to the next job.

The four cylinder, radiator cooled Universal engine, is designed for heavy duty, yet it is flexible and smooth in operation. Positive ignition at slow cranking speed and improved carburetion makes this motor easy to start. The two cylinder hopper cooled Fuller & Johnson engine or an electric motor can be furnished on the Dandie, if desired.

According to your needs, either a power charging skip or a low charging hopper with platform for charging the mixing drum direct with wheelbarrows, may be furnished.

For light hoisting, a hoist of five hundred pounds lifting capacity can be built on the main frame.

Additional Sizes of Construction Mixers.

Catalogs and specifications of the Dandie light mixer and also of the larger Heavy Duty construction mixers Nos. 10S, 14S, 21S, and 28S will be sent upon request.

For further details and literature, write to: **KOEHRING COMPANY** 31st St. and Concordia Avenue, Milwaukee, Wisconsin

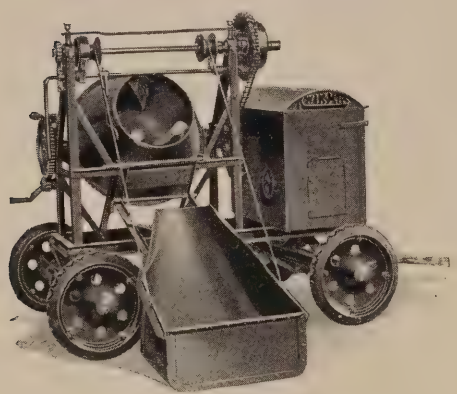
Concrete, Plaster and Mortar Mixers AND PUMPING UNITS



TRAILER TYPE
Size: 3 and 3½ Cubic Feet.



MODEL E.
Size: 3, 3½, 5 and 7 Cubic Feet.



3½ L LOADER TYPE.



5 L and 7 L LOADER TYPE.

Made by

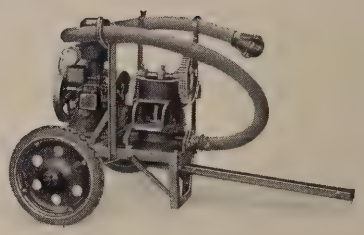
Kwik-Mix Concrete Mixer Co.

Port Washington, Wisconsin

Products:

Kwik-Mix Tilting Mixers have long been serving contractors who want tilting mixers that will economically perform on practically all kinds of concrete work. From the small No. 2 to the big one-bag size, there is a Kwik-Mix Mixer that will cope with all concrete work.

Besides Concrete Mixers, Kwik-Mix manufactures a one-bag Plaster and Mortar Mixer and Diaphram Pumping Units. The Pumping Units can be had in 3 and 4 inch sizes.



KWIK-MIX PUMPING UNIT.

The Kwik-Mix Pumping Unit can be had in two sizes with capacities of 5,000 and 10,000 gallons. These units can be furnished with or without suction hose or foot valves.

Trailer Type Mixer:

Kwik-Mix Trailers are designed and built primarily for greater portability and enduring service. This Trailer is made in 3 and 3½ cubic feet capacity. They can be furnished with pneumatic or cushion tired wheels. Simply hitch the Trailer to an auto and speed away to the job. While the Mixer is in operation the towing bar can be removed.

Model E:

3½ L Loader Type:

The No. 3½ Side-Loader Machine will handle a half-bag mix and insure a thorough and even mixture when discharged. The Kwik-Mix Drum runs on roller bearings which will last the life of the Mixer. Perfectly balanced, semi-automatic discharge and other features make this machine a real buy. It has ample and dependable power.

5 L and 7 L Loader Type:

This Kwik-Mix Heavy Duty One-Bag Mixer is designed for any concrete work where a one-bag mixer is adaptable. The frame is compact and heavy and is scientifically braced to contain a high degree of rigidity. Its operating levers are so arranged to allow one man to completely and conveniently operate the mixer. It only has one lever to control the skip. It has automatic locking features. This Mixer has an over-sized mixing drum revolving on Hyatt Roller Bearings and Ball Thrust Bearings, four steel mixing blades, durable frame construction, and dependable and surplus power.

Kwik-Mix Plaster Mixer:

The Kwik-Mix Plaster Mixer is the newest of practical mixers of this type. It is designed for capacity and speed consequently it is ruggedly constructed to give longer life. This mixer will handle a one bag mix and keep 15 to 20 plasterers busy. This mixer is mounted on four cushion tired wheels, or four steel wheels, has a 2″ shaft with an adjustable bearing on each side of drum for tilting same, thus insuring perfect alignment of drum and blades in case of wear. The drum is tilted by hand by means of pinion and spur gear for faster discharge, equipped with a 3 H.P. gasoline engine. It is designed to thoroughly mix hard wall plaster, hair plaster, stucco and mortar.

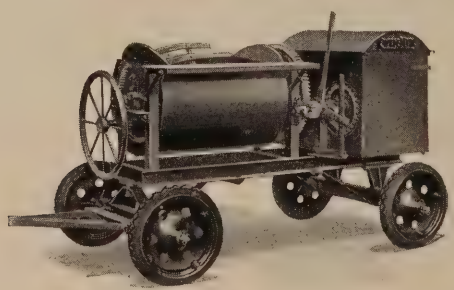
Performance, Capacity and Price:

For performance, capacity and price Kwik-Mix Mixers are unequaled. Kwik-Mix Mixers will turn out more yardage. A comparison on the job proves it Kwik-Mix Construction and equipment gives faster mixing and lower maintenance cost.

Perfectly Balanced, semi-automatic discharge, portability and other features only found on Kwik-Mix Mixers speeds up the job.

A size to meet your needs from the 2-foot mixer on skid to the 7-foot size. Kwik-Mix Mixers are furnished with various types of mountings to your requirements.

Stocks carried in all principal cities. Write for catalog giving full specifications.



5 E PLASTER MIXER.



MIXER ON SKIDS.
Sizes: 2, 3, 3½, 5 and 7 Cubic Feet.

For further details and literature, write to: **KWIK-MIX CONCRETE MIXER CO., Port Washington, Wis.**

SMITH MIXERS

Made By

THE T. L. SMITH COMPANY

1066 32nd Street, Milwaukee, Wis.

SALES OFFICES AND SERVICE STATIONS
IN ALL PRINCIPAL CITIES

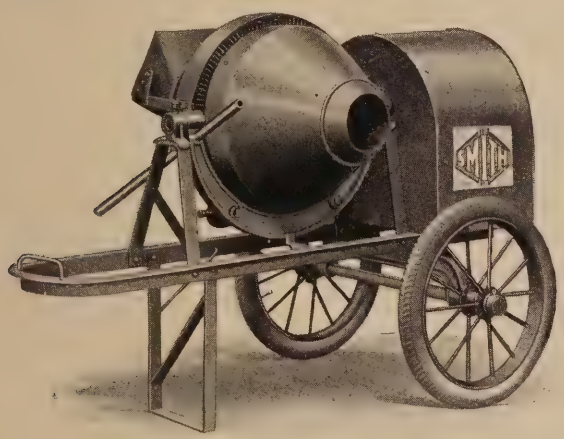
Products:

Concrete Mixers, made in eleven sizes and types for every class of concrete construction work.

The Smith Mascot (2½-S) 25 to 45 cu. yds. Per Day:

The ideal concrete mixer for the small job and repair contractor. It is quality built so that the same high grade, dependable work that is demanded of large Smith Tilters on big jobs is now possible on the small jobs.

It is light enough to be drawn along the forms or easily towed from job to job. It has an easy, one-hand tilt that can be operated from either side of the mixer. Other features are: 1. The famous Smith double-cone Tilting Drum with its fast mixing and fast discharge; 2. A 1½ hp. engine of the best quality, surplus power, Wico Magneto, steel engine house; 3. Electric welded steel drum—speed 19.3 R. P. M.; 4. Machine cut engine gear and pinion; 5. Chilled thrust rollers with dustproof lubrication; 6. Electric steel drum pinion, with dustproof lubrication; 7. Choice of steel truck wheels, or wheels for Ford 30"x3½" pneumatic tires; 8. All steel frame—full trussed rear axle; 9. Capacity—2½ cu. ft. per batch of mixed concrete—a full wheelbarrow load.



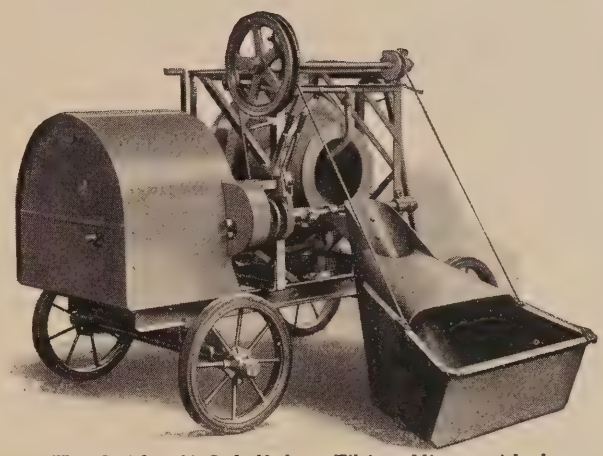
The Smith Mascot (2½-S) Tilting Mixer; Lever Tilt; pneumatic tires; capacity 25 to 45 cu. yds. per day.

The Smith 3½-S Tilter:

This is the second size of the Smith line and is designed to produce 35 to 50 cu. yds. of concrete daily. Like the Mascot it is especially adapted for small job use and has the same type of high quality design and construction.

It is the smallest Smith mixer equipped with power loader, the use of which speeds up production and increases the capacity of this mixer about 30 percent.

Other important features are: 1. Double-cone tilting drum with fast mix and discharge—electrically welded—16 R. P. M.; 2. Rollers fixed to shafts which turn in bronze bushings; 3. Drive shaft turns in cast iron bushing—speed of shaft 131 R. P. M.; 4. Heavy truss type rear axle; 5. Choice of four steel wheels, or two clincher wheels for 30"x3½" Ford tires; 6. Light weight 1100 lbs. (with power loader 1635 lbs.) allows easy shifting and moving from job to job; 7. Discharge in 8 seconds—is high enough for discharging directly into wheelbarrows; 8. Easy tilt, operating from either side of mixer; 9. 1½ hp. engine, best quality, with Wico Magneto. 2 hp. engine, if equipped with loader; 10. Capacity 3½ cu. ft. mixed concrete.



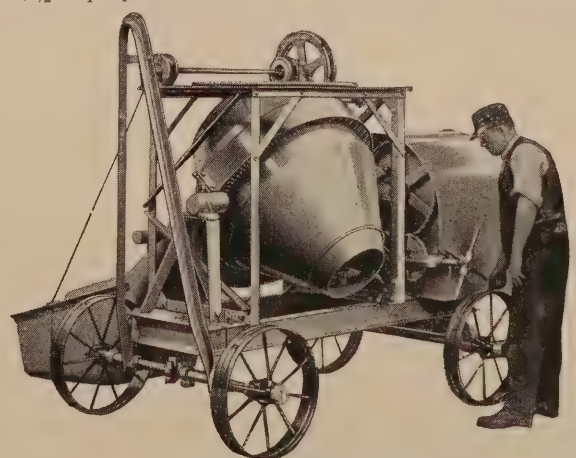
The Smith 3½-S half bag Tilting Mixer—with four wheels, solid rubber tired truck, and power loader.

Smith 5-S Tilter:

A one-bag mixer up to 1-2½-4 proportions, such as are specified by engineers and architects for bridges, culverts, driveways, garage and industrial floors, and many reinforced concrete buildings.

Because of its short trucks and light weight it is easily portable. It can be furnished with low charge hopper and platform or with power loader. It has a capacity of 50 to 80 cu. yds. per day.

Other features are: 1. Double-cone tilting drum with fast mix and discharge—14.5 R. P. M.; 2. Rollers fixed to shafts that turn in bronze bushings; 3. Drive shaft that turns in cast iron bushings—speed of shaft 137 R. P. M.; 4. Heavy truss type rear axle; 5. Furnished on four steel or four solid rubber tired wheels; 6. Weight, with feed chute, only 2150 lbs.—with power loader 2525 lbs.; 7. Discharge in 8 seconds—high enough for discharge into wheelbarrows; 8. Easily operated from either side of mixer; 9. Low charging hopper 36 inches wide, 43 inches high—platform can be furnished; 10. 3 hp. engine best quality, with Wico Magneto; 11. 5 cu. ft. mixed capacity—one bag batch up to 1-2½-4 proportions.



Smith 5-S (one bag) Tilter; holds batch up to 1-2½-4 proportions; has easy one-hand tilt.

Other Smith Models:

The full line of Smith Tilting Mixers includes the three small models above described, the 7-S, a one bag mixer up to 1-3-6 proportions, the 10-S, 14-S, 21-S, 28-S, 40-S, 56-S and 112-S the world's largest mixer (with 4 cu. yards mixed capacity) such as were used on the gigantic Wilson Dam at Muscle Shoals, on the Galveston Causeways, etc.

The Smith Non-Tilting Mixers include the 7-S, 14-S, 21-S and 28-S—the numeral indicating in each case the mixed capacity in cu. ft.

The complete line is fully described and illustrated in our new catalog No. 500. Send for a copy today.

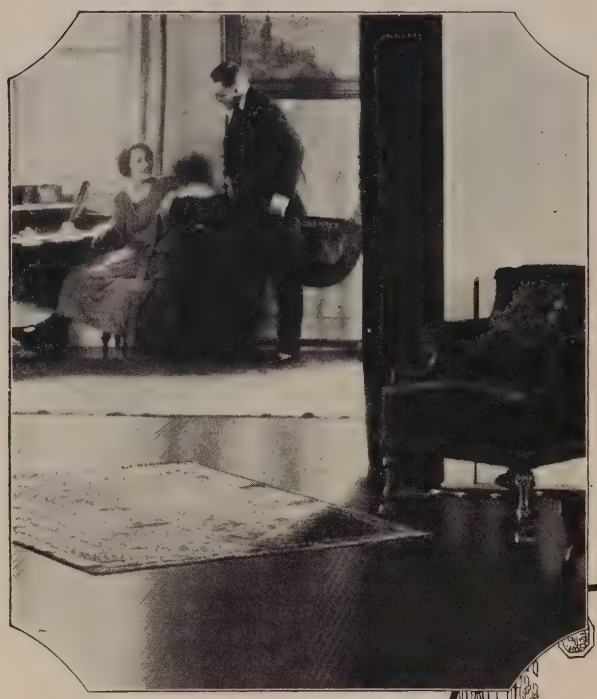
For further details and literature, write to: **THE T. L. SMITH COMPANY, Milwaukee, Wis.**

The "AMERICAN UNIVERSAL" Floor Surfacing Machine

Manufactured by

THE AMERICAN FLOOR SURFACING MACHINE COMPANY

516 So. St. Clair St., Toledo, Ohio





Not only will it surface new floors, but it will resurface old floors as well, removing varnish, paint, shellac, wax, etc., making them like new. It will level all warped and rough edges of the flooring and give any floor, no matter what kind of material, a new, bright and smooth appearance.

The "American Universal" electrically driven floor surfacing machine renders superior service to the contractor-builder interested in lower labor costs and better working conditions for his men. This fact is proven daily by thousands of contractors and builders all over the United States who have bought an "American Universal" to do the work once required of the carpenter—hand scraping floors.

This machine, the result of twenty years manufacturing endeavor; simple in its construction, and requiring no previous experience to operate, will do the work of six men scraping floors by hand, and it will do it better, faster and more efficiently. It can be used on any floor from a cottage to the largest auditorium.

Floors as Smooth as Table-Top

The capacity of the "American Universal" depends to a very large extent on the condition of the floor to be surfaced and how fine a finish is required. It will surface any floor down as smooth as a table top.

The machine leaves the job clean, for a vacuum fan deposits all dust and dirt, and other particles in the bag furnished. By substituting a piece of old carpet for the garnet, or sandpaper, on the drum, a polish as smooth as glass can be produced on waxed floors.

The machine, being mounted on three truck wheels, responds to any and all irregularities of the floor, the pressure of the sanding drum being controlled entirely by the control lever and the American Automatic sustaining device. These two features makes possible the high grade of work, free from sander waves, vibration marks and imperfections of any kind, for which the "American Universal" is so well-known.

Silent High Speed Chain

Surfacing Machines cannot be driven by a belt. The distance between the shaft of the motor and the sander drum is too short to make a satisfactory drive on account of the stretching and slipping of a belt. A chain drive is necessary. The Silent High Speed Chain used on the "American Universal" is 99% efficient. In other words but 1%, or one cent, of every dollar you pay for electric power, is wasted.

Is Accurately Machined

The "American Universal" is built of interchangeable parts, each part being made and machined accurately to the thousandth of an inch. It is an absolute certainty that repair parts will fit whenever they may be needed in future work. When you buy an "American" you assure yourself of the benefit of the years of experience of an organization that has made a specialty of floor surfacing machinery.

Low Operating Costs Big Feature

Low operating cost is another distinct feature of the "American Universal". The cost of electric power and garnet paper for a full day's operation averages *less than one dollar*—less than the value of the time one floor mechanic wastes during the course of a day resting his weary arms, back and, in fact, entire body when surfacing a floor by hand.

The upkeep cost of an "American Universal" is proportionately low. In its making, the world's largest exclusive manufacturer of surfacing machines has employed workmanship and materials that enable it to deliver years of low-cost efficiency. It is strong, simple and sturdy. It is easily looked after. The number of parts is surprisingly small. It has no mechanical intricacies. Give it the care and attention you give to your saws and it will prove its worth for years to come.



No Expert Operator Needed

A turn of the electric switch and it is ready to make contracting's hardest task the easiest and most economical job. No expert operator needed! The most inexperienced workman can obtain first-class results. The machine does the work, not the man—he merely steers it. Think what this means when floor mechanics are scarce and wages are high! No worry! No loss of time! No sacrifice of profits! With an "American Universal" at hand one phase of your labor problem is solved for all time to come.

Five Day Trial

The "American Universal" is its own salesman. It sells itself by its rigid construction, simplicity, perfect workmanship, and popular price.

Every "American Universal" shipped is sold on Five Days' Trial. You thus have every opportunity to test it on your own work—to prove to your own satisfaction that the testimonials of enthusiastic owners are founded on actual time and money saving facts.

Send today for descriptive folder telling you in detail just what the "American Universal" can do for you. You will be placing yourself under no obligation to buy. Do this today.

For further details and literature, write to: **THE AMERICAN FLOOR SURFACING CO.** **516 So. St. Clair St., Toledo, Ohio**

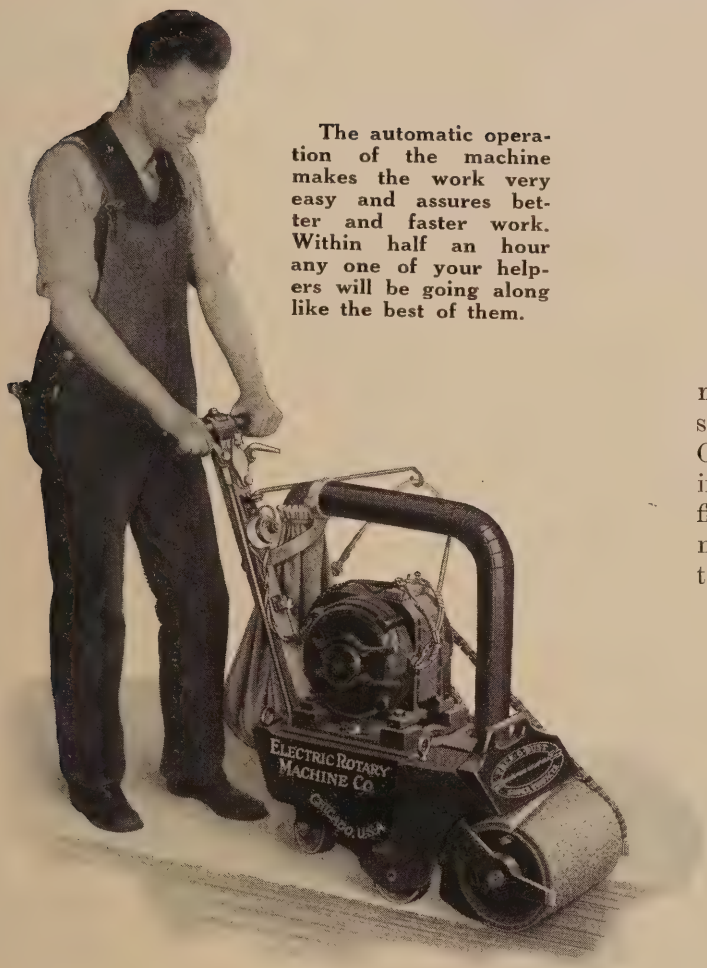
Floor Surfacing and Polishing Machines

Made by

ELECTRIC ROTARY MACHINE CO.

3827-31 W. Lake Street, Chicago, U. S. A.

Branch Sales Office: New York City



The automatic operation of the machine makes the work very easy and assures better and faster work. Within half an hour any one of your helpers will be going along like the best of them.

Electric Floor Surfacing

Here is a machine that is an all-the-year-round money-maker. No building contractor can afford to surface and polish floors by hand when with a FREE-O-DUST Super Surfacer a week's work can be done in a single day. Floor surfacing and refinishing old floors with one of these machines is a profitable business in itself—$25 to $40 a day is what other contractors are making.

Five Days Free Trial

Write for particulars of our free trial offer. This machine is its own best salesman. Nothing that we could say would be half so convincing as standing behind the machine yourself and seeing with your own eyes what it will do. There are no strings to this offer. It will cost you not one cent to give the machine a thorough try-out. After you have seen how easy it is to operate, how fast it works and what beautiful work it does you can return it if you want to—but you won't!

A Week's Work in One Day

Electric Rotary Machine Sandpapering Disc

14 Inches in Diameter



The Electric Rotary Machine can be used not only for sanding wood floors when an exceptionally high finish is desired, but also for surfacing and polishing Marble, Terrazzo, etc., waxing and polishing, scrubbing as well as for every other kind of floor work by simply putting on a different attachment. Our special flexible shaft attachment for covebase, wainscoting, sidewalls, stairs, etc., is one of the exclusive features of this time and labor saving machine.

With the FREE-O-DUST Super Surfacer floor surfacing can easily be handled at the rate of "a week's work in one day." In other words, you save the wages of from six to eight men completing your job quicker and at the same time the machine will do much better work than could be done by hand.

This machine has a number of exclusive features, among the most important being that every particle of dust is collected on the forward movement as well as on the backward movement, and that the machine can be operated right up to the baseboard.

The no-dust-feature is of particular importance when resurfacing old floors in buildings that are occupied. Even when surfacing new floors it is, however, a great advantage because it protects the health of the operator by preventing him from inhaling the poisonous substances that often accumulate in wood flooring.

It does faster and better work. Easy to operate. Pressure on drum automatic and drum can be locked to any pressure desired.

It will pay for itself on the first few jobs, and is sold on an unconditional *five days free trial.* Write for particulars.

For further details and literature, write to: **ELECTRIC ROTARY MACHINE CO.,** 3827-31 W. Lake Street, Chicago, Ill.

Improved Schlueter Surfacer and Lincoln Floor Waxer

Made By

LINCOLN-SCHLUETER MCHY. CO.

224 West Illinois St., Chicago



Products:

This company manufactures floor surfacing machinery made in various sizes and weights sold on a 5-day Free Trial Offer and under a 5-year guarantee against defect in material and workmanship. Also make electrically driven machines for waxing, cleaning, scrubbing and polishing floors.

The Improved Schlueter Surfacer:

This machine is designed to surface any floor new or old of either hard or soft wood, rapidly and easily smoothing down all joints or warped edges. It will remove paint, varnish, shellac, wax, dirt or any substance from old floors and make them look like new.

Working Capacity

While capacity of machine depends largely upon its size and the condition of the floor, the medium size machine will surface—once over—from five to seven thousand square feet in eight hours.

Operation

Simply connect to electric current, throw in switch, allow roller or sanding drum to come in contact with floor, hold back on handle allowing machine to travel forward 10 to 15 feet per minute. Operation so simple that any one without previous experience is able to turn out a perfect job.

Flexible Automatic Roller

Roller or sanding drum is a hollow steel cylinder with cast iron heads on both ends. Is mounted on self-aligning ball bearings at each end and has a special spring construction that causes the roller to accommodate itself automatically to the floor surface upon which it is working with exactly the proper amount of pressure, without vibration, thus eliminating waves and chatter marks. This construction is a patented feature and entirely does away with all levers leaving both hands of operator free, assuring perfect control of machine at all times. A thumb screw adjustment is provided when a slightly deeper cut is desired on one side or for levelling roller with floor.

Surfaces Right Up to Quarter Round

The Improved Schlueter surfaces up to within a quarter inch of wall or baseboard—if the quarter round is laid the machine will surface right up to it.

Side Roller Attachment

This roller which is furnished with each machine is handy for getting into hollows and low spots when resurfacing old floors, and may be used on new work in off corners.

Vacuum Dust Collectors

All dirt and dust is carried back into a one-piece aluminum dust pan mounted directly behind the sanding drum. This pan is light, yet strong, has no sharp edges and will not bend or clog.

From the pan the powerful suction blower picks up dirt and deposits it in a sack attached to upper end of blower pipe.

Motors

Special Service Ball Bearing Motors are used, noted for their simplicity of construction and economy in power consumption. Shaft is mounted on self-aligning S. K. F. ball bearings; commutator is totally enclosed to exclude all dust —adding to life of brushes and all internal parts. These motors are furnished for either Alternating or Direct current.

Silent Chain Drive

Genuine Link Belt Silent Chain Drive is used. This well-known chain is as flexible as a belt, cannot slip, its motion is positive under all conditions and action so smooth that there is no vibration.

Carrying Handles

A set of easily attached carrying handles made of strong tubing are furnished with each machine to permit two men to carry machine from floor to floor.

No Extras to Buy

With each machine are furnished 25 yards each of fine and coarse sand paper, side roller attachment, carrying handles, wrenches, paper cutting patterns, electric switch, 100 feet of extra heavy, flexible trailing wire, extra repair links for chain drive, bending board and dust sack.

Sizes and Weights

Size of Roller or Sanding Drum	H. P. of MOTOR	Weight of Machine
8½"x 9" long	1 H. P. Motor	185 lbs.
8½"x12" long	1½ H. P. Motor	230 lbs.
*8½"x12" long	2 H. P. Motor	250 lbs.
8½"x15" long	2½ H. P. Motor	310 lbs.
8½"x18" long	3 H. P. Motor	360 lbs.

*Special for extra heavy duty or continuous service on large areas.

Guarantee

The Lincoln-Schlueter Machinery Co. guarantees every Improved Schlueter machine against defects in material and workmanship for five years from date of shipment and agrees to replace free of charge any part which may become unfit for service, provided the damaged parts are returned to the factory at Chicago, Illinois.

Lincoln Twin Disc Whirlwind Floor Waxing Machines

These motor-driven machines made in five sizes with ball and rolled bearing construction throughout, scrub, polish, clean and wax floors rapidly and well. They will do the work of ten to twenty men and do more uniform work. They use but little electric current and the small sizes may be attached to any lamp socket. They are light in weight, compact and so easily operated, they do not require an experienced operator.



Operation

The two brush discs revolve in opposite directions eliminating the tendency to spin or pull away from operator making machine practically self controlled. All water is carried towards the center, when scrubbing, and there is no waste of wax in waxing floors.

Ask Us About

Free trial offer and descriptive literature.

For further details and literature, write to: **LINCOLN-SCHLUETER MCHY. CO.** 224 W. Illinois St. CHICAGO

Onan "Safty Saw"—Portable



GUARANTEED TO SAVE ITS COST OVER OTHER METHODS

Light—Safe—Portable Power Driven Saw for Carpenter Contractors and Lumber Yards

Manufactured By

D. W. ONAN & SONS

46 Royalston Avenue, MINNEAPOLIS, MINN.

Product

The ONAN "SAFETY SAW" is a light, safe, portable and inexpensive saw, power driven, with the necessary capacity for cutting lumber of building dimensions. Namely; that used in construction of dwellings and buildings, on which a power saw was not practical heretofore because of its cost, weight and power disadvantages.

Changes Long Established Practice

ONAN "SAFETY SAW" changes the long established practice of sawing timber by hand. For construction work on even the smaller building or jobbing, the advantage of working with power equipment needs no comment. Your millwork and trim proves it is possible to get high efficiency only with Power Machines. ONAN "SAFETY SAW" extends the use of power equipment to every cut.



Cutting Capacity

2x12″ and 1x15″. Larger saws on special order.

Extends Use of Power Driven Equipment

ONAN "SAFETY SAW" extends the uses of the power driven equipment to even the smallest job where sometimes jobbing of two or three hours is done, and does away almost entirely with the use of the hand saw and its inadequate methods.



Cross Cut, Ripping and Mitering

ONAN "SAFETY SAW" is of the bench swing type making it possible to **cross cut, rip** and **miter** on the same equipment, by conventional methods. CROSS CUTTING is done by swinging the saw through the material; MITERING by the same plan; and for RIPPING the saw arbor is locked at the center of the table, the gauge changed to parallel the blade on the opposite side, and the material is fed to the saw by the regular method.



Either Gasoline or Motor Driven

ONAN "SAFETY SAW" made in several sizes. Fitted with either gasoline engine or electric motor. Special starting arrangement on gasoline equipment. The electric saw runs from the lighting socket.

Forming or Rafters, Studs, Etc.

All material is cut and formed before being passed to the job. There is no extra handling of material—no waste because all shorts are at the saw—no squaring—your job is square and plumb.



Cutting All Done by the Production Method

No longer should each board be squared and marked by the old method. Set the stop, put the board or stud in place and cut ten where you mark one.

Made in Several Sizes

ONAN "SAFETY SAW" is furnished in several sizes. Weight of regular "SAFETY SAW," for general carpentry work approximately 200 lbs. Can be handled by two men, in and out of trucks, or up and down stairs.



Lumber Dealer's Special

The "SAFETY SAW" is built in a size which is particularly adapted for use in the lumber yard where the use of a power saw saves time. Reclaims lumber, adds to good service, a profitable investment! Write for details on this saw.

For Bridge, Dock or Heavy Mill Work

In writing for information, state sizes of lumber to be used. Will handle any size sawing up to 4″x8″ or 3″x14″. Of same design. Immediate deliveries from stock.



For further details and literature, write to: **D. W. ONAN & SONS** Royalston Avenue MINNEAPOLIS, MINN.

Jaeger Portable Woodworker

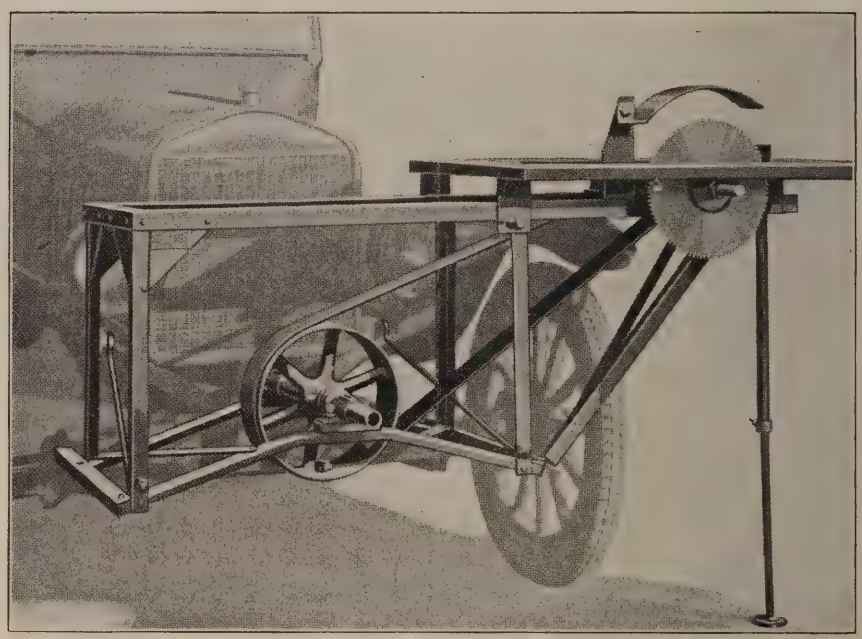
Made by

JAEGER PORTABLE MACHINERY COMPANY

Woodbridge St. at Rivard, DETROIT, MICH.

A Sturdy 15 H. P. Outfit at Lowest Cost

Light, yet strongly constructed, it is so suspended from the car that it does not vibrate even at highest speeds —it is completely equipped with saw guard, splitter for ripping, gauge, belt, two high grade saws (10″ Rip and 12″ Cut-Off). Length over all 72″; height 40″, length of sliding roller bearing table, 42″; width, 22″. Weight 175 lbs.



Use Your Ford for More than Transportation—Make it Work for You on the Job.

It was a builder, facing the keenest kind of competition, who first conceived the Jaeger Portable Woodworker, for he recognized that a Portable Power Saw would give him a big advantage, providing it didn't represent too much of an investment. For power he used his Ford, eliminating an expensive electric motor or stationary gasoline engine. Then he made the saw rig as light as possible so that it could be easily put on or taken off by one man.

As a matter of fact it is not necessary to detach the Woodworker to drive the Ford, so you can move around on the job with the Woodworker ready for instant use. When you quit at night the Woodworker can be detached in a moment and as readily attached again the next morning. No alterations to car—no bolts or screws to bother with. Power is derived direct from crank-shaft, without loss through transmission or rear wheels.

Saves 20% On Framing Costs

No argument is needed to convince you that a Power Saw like that illustrated above will enable you to make big savings on any job—20% is a low estimate.

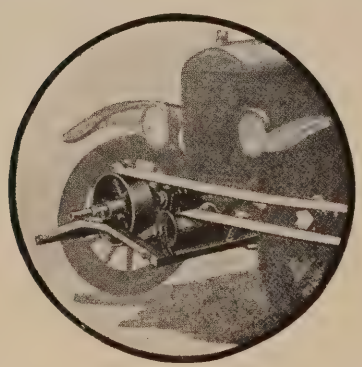
One contractor, erecting 40 small frame houses, claims that the Jaeger Portable Woodworker saved him $50 a day. Another, on an apartment house job, did all of the sawing for 60 carpenters with a Jaeger.

Does Every Kind of Work

Cuts compound angles—rips quickly and easily—cuts studding, joists, rafters, ship-lap, bridging, cornices, etc. One man with a Jaeger Portable Woodworker, can cut enough lumber to keep a large crew of carpenters busy framing.

With this machine you can underbid anyone who sticks to the old, expensive, time-wasting and costly hand methods, and still make bigger profits than you ever made before.

Write Today for Full Information and Name of Nearest Dealer



Here's another "Ford accessory" for the contractor.

Jaeger Power Take-Off

Mixes concrete, operates hoists, or furnishes belt power where required.

For further details and literature, write to: **JAEGER PORTABLE MACHINERY CO.** Woodward St. at Rivard, DETROIT, MICH.

STERLING WHEELBARROWS

Made By

STERLING WHEELBARROW COMPANY

MILWAUKEE, WIS.

SALES OFFICES IN PRINCIPAL CITIES

Carried in Stock by Leading Hardware and Supply Companies



No. 6A.

A general purpose contractors barrow. Standard A. G. C. size for dry material or concrete. Tray is 16 guage reinforced at top edge with $\frac{5}{16}$" rod. Channel steel legs equipped with shoes. Clear maple handles equipped with steel tips. No. 2 self-lubricating wheel. Width 29"; length 65", height 25"; weight 72 pounds. Capacity 3½ cu. ft.

No. 15. Equipped with wheel guard instead of tips. Otherwise the same as 6A above described.



No. 7 and 7B.

This is the steel handle companion to the No. 6A barrow. It is made in two capacities 3½ and 4 cu. ft. Tray is 16 gauge reinforced at top with $\frac{5}{16}$" rod. Channel steel legs equipped with shoes. No. 2 self-lubricating wheel.

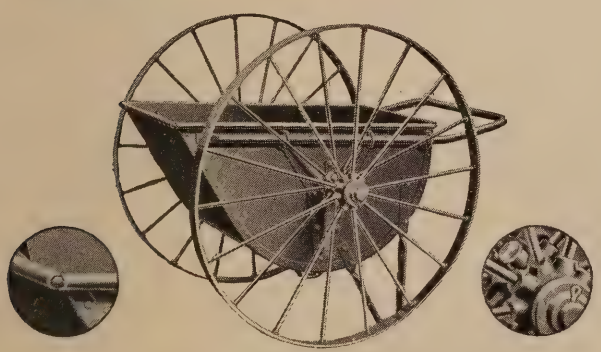
	Width	Length	Height	Weight	Capacity
No. 7	29"	65"	23½"	73	3½ cu. ft.
No. 7B	30"	65"	25"	76	4 cu. ft.



No. 10A.

Mortar and concrete barrow built to A. G. C. standard size and construction. Tray is 16 gauge reinforced at top with $\frac{5}{16}$" rod. Channel steel legs equipped with steel shoes. Maple handles equipped with steel tips. No. 2 self-lubricating wheel. Width 29"; length 65"; height 27"; weight 76 pounds. Capacity 4½ cu. ft.

No. 16. Equipped with wheel guard instead of tips. Otherwise the same as the No. 10A



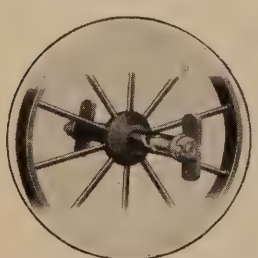
No. 6 Concrete Cart.

Strongest construction. The entire tray is made of 12 gauge steel, reinforced at top edge with a continuous ½" rod. The tray steel is crimped over the rod. The handle extends full length of the tray, providing additional reinforcement to the tray sides. The axle brackets are of malleable and of extra large and heavy design. Wheels are 42" diameter, equipped with grease cups. Short sturdy legs.

Width	Length	Height	Weight	Capacity
39½"	57"	42"	246 lbs.	6 cu. ft.



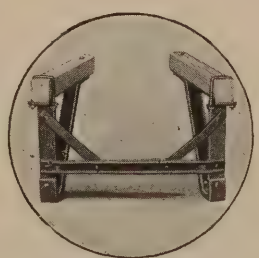
Make Barrows Easier To Push



10 Spoke Wheel Extra Rigidity



Gives Added Strength And Service



Riveted Channel Leg For Strength



Malleable Iron—Greater Protection

For further details and literature, write to: **STERLING WHEELBARROW COMPANY, Milwaukee, Wis.**

Koehring Gasoline Shovels

Manufactured by

KOEHRING COMPANY

Milwaukee, Wisconsin

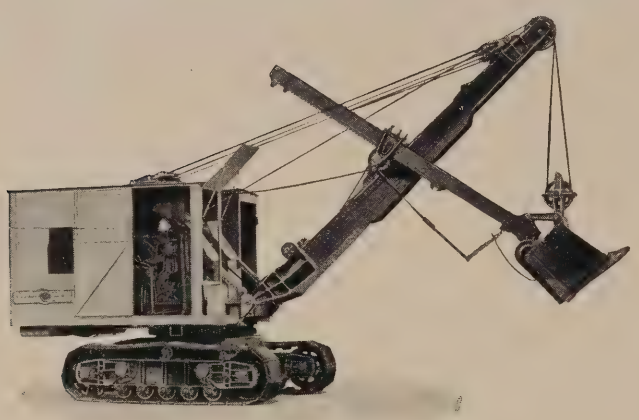
SALES OFFICES AND AGENCIES

Atlanta, Ga.	Koehring Co. of Ga., N. A. Coulter, 24-26 Stewart Ave.
Baltimore, Md.	Thos. M. Brown, 20 Knickerbocker Bldg.
Birmingham, Ala.	Herbert Gad, Martin Bldg.
Boston, Mass.	Koehring Company, C. R. Dodge, 141 Milk Street.
Buffalo, N. Y.	H. B. Trevor Company, 197 Rensselaer Street.
Butte, Montana	Northwest Equip. Co., 14 West Granite Street.
Chicago, Illinois	Koehring Company, G. E. Hillsman, 849 Peoples Gas Bldg.
Columbus, Ohio	W. W. Williams Company, 987 West Goodale Street.
Dallas, Texas	Geo. W. Smith Company, 521 South Akard Street.
Des Moines, Iowa	Herman M. Brown Company, 212-216 12th Street.
Denver, Colo.	Wilson Machinery Company, 1936-38 Market Street.
Detroit, Michigan	Good Roads Supply Company, 1409 Ford Building.
El Paso, Texas	Steel Products Corporation.
Indianapolis, Ind.	Koehring Co., H. W. Taylor, 1009 Fletcher Trust Bldg.
Kansas City, Mo.	Koehring Company, W. E. Hughes, 2045 Main Street.
Los Angeles, Cal.	Harron, Rickard & McCone Co., 225 So. San Pedro St.
Louisville, Ky.	Roy C. Whayne Supply Company, 608 W. Jefferson St.
Milwaukee, Wisconsin	Koehring Co., G. H. Mueller, 6090-92 Plankinton Arcade Bldg.
Minneapolis, Minn.	Thorman W. Rosholt Co., 300 Tenth Avenue, South.
Nashville, Tenn.	Wilson-Weesner-Wilkinson Co., 108-112 Fatherland St.
New Orleans, La.	Koehring Co., Warren C. Shankle, 606 Godchaux Bldg.
New York, N. Y.	R. E. Brooks Company, W. W. Bucher, 50 Church St.
Philadelphia, Pa.	Lee T. Ward Company, 617 Filbert Street.
Pittsburgh, Pa.	Geo. W. Ziegler Machinery Co., 528 First Avenue.
Portland, Ore.	L. A Snow Company, 21 Union Ave., Cor. E. Ash Street.
Salt Lake City, Utah	Lund & Company, Dooly Block.
San Francisco, Cal.	Harron, Rickard & McCone Co., 139 Townsend Street.
Seatle, Wash.	L. A. Snow Company, 1032 Sixth Avenue, South.
St. Louis, Mo.	Koehring Co., C. F. Rabbeitt, E-20 Railway Exch. Bldg.
Tampa, Fla.	Koehring Company of Florida, 215 So. Franklin St.
Miami, Fla.	Koehring Company of Florida, 2127 Northwest 1st Ave.
Jacksonville, Fla.	Koehring Company of Florida, 808 West Bay Street.
New York, N. Y.	Koehring Company Foreign Dept., 50 Church Street.
Toronto, Ont., Canada	Koehring Co. of Canada, Limited, 105 Front St., East

Pavers, Mixers, Subgrade Planers, Bar Benders,

For Concrete Mixers See Page 485

Gasoline Cranes, Draglines, Shovels, Bar Cutters



Koehring No. 1 Shovel ¾ Yd. Dipper

Koehring Heavy Duty Gasoline Shovels

In excavation work, digging cellars and basements, the Koehring shovel has proved its profit-making value through better design and heavy duty construction, providing greater adaptability, greater capacity, and longer service life.

With short boom and long dipper sticks, it has the advantage of being able to work in close quarters with low head room, yet having long reach and high lift, as the operator can easily crowd the dipper out beyond and above the end of the boom.

In addition to its adaptability to excavation work, the Koehring shovel is powerful and moves easily. The self-cleaning type multiplanes have a large bearing surface which provides steady tractive power.

Long-run economy results from strict adherence to the policy of building a better machine with the aid of the contractor. Such constant development has brought several distinctive features to the Koehring shovel.

Finger-Tip Control

Finger-tip control, made possible by Koehring double equalizing outside band friction clutches, provides operating ease, speed, and an accurate control for the operator, giving him the necessary "feel" of the work.

Crowding Action Above and Beyond End of Boom

For digging low and loading high, a smooth cable crowding action enables the operator to crowd the dipper out beyond and above the end of the boom. This action is an entirely separate and independent function, operated at the touch of a lever. The dipper may also be racked in close to the multiplanes.

Boom Hoist

Frequently in excavation work it is necessary to change the angle of the boom. To accomplish this the operator merely shifts a lever and the boom is raised or lowered to the proper position.

Capacities No. 1:

¾-yd. dipper, struck measure. Boom length, 19′6″. Dipper sticks, 16′. Speeds: Rotating, 3.5 R. P. M. Traction: 5/8x1 3/8 miles per hour forward and reversee. Power: Four cylinder, 5″x6″ Wisconsin gasoline engine, 1000 R. P. M. specially designed for gasoline shovel work.

Capacities No. 2:

1⅛-yd. dipper, struck measure. Boom length, 20′7″. Dipper sticks, 16′. Speeds: Rotating, 3 R. P. M. Traction: ½ and 1⅛ miles per hour forward and reverse. Power: Four cylinder, 5¾″x7″ Wisconsin gasoline engine, 1000 R. P. M. specially designed for gasoline shovel work.

Crane and Draglines.

The same Heavy Duty construction is found in Koehring gasoline cranes and draglines, made in ¾ and 1 yard bucket capacities.

Send for specfications catalog.



In Excavation Work

For further details and literature, write to: **KOEHRING COMPANY** 31st Street and Concordia Avenue, Milwaukee, Wisconsin.

Never before has there been a book for the building contractor like Home Builders Catalog

IT gives you in one big volume *everything* you need to aid you in selecting the most suitable materials for the homes you build and equipping them with those modern refinements and conveniences that mean so much to your customers. The hundreds of beautiful illustrations are of homes *actually built.* The floor plans are in many cases unique, striking examples of combining the maximum of home comforts with minimum space requirements. The Manufacturers' Section is a never-failing source of information and inspiration, containing as it does authentic data on every conceivable kind of building material and home equipment.

Hundreds of leading manufacturers have adopted HOME BUILDERS CATALOG as a means of presenting the merits of their products to prospective home owners through the building contractor. This great co-operative catalog takes the place of thousands of individual catalogs, giving you in one great reference work every bit of information you need to show your customer each detail of the house you propose to build for him.

Backed By Real Service

The Plan Service supplied by the HOME BUILDERS CATALOG CO. (described on pages 513-520) is complete, comprising working blue-print plans of every house and garage illustrated, together with material listing guide, and complete specifications and legal contract forms.

The use of this service insures accuracy and economy in construction, estimates free from errors, and a thoroughly satisfied customer because nothing is left to the imagination. Every detail of his home as it will appear when finished can be shown him in advance in HOME BUILDERS CATALOG.

You will find yourself constantly referring to HOME BUILDERS CATALOG and never will you look to it for aid in vain.

Homes for the Millions

The homes illustrated in HOME BUILDERS CATALOG are the last word in up-to-date style and convenience, yet so perfectly are they designed that not an unnecessary dollar of expense is incurred. The price range is from $3,500 to $15,000, covering the needs of the great middle-class of home builders. Ninety per cent of all the homes built in this country fall within these price limits.

Careful attention has been paid to those details of design and construction that give distinction, charm and convenience to the home—such things, for instance, as big, bright living rooms with open fire places; conveniently arranged kitchens with built-in features; breakfast nooks, sun parlors; sleeping porches, bed closets for concealed beds, etc.

Hundreds of Ideas for Our Home Builders

The Manufacturers' Section of HOME BUILDERS CATALOG is the most comprehensive exhibit of building materials and home equipment ever presented to the Building Contractor in a single volume. A careful study of this Section will not only give you many new and helpful ideas but will enable you to demonstrate to your customers the advantages of the materials or equipment you propose to incorporate in the homes you build for them. Lend your copy of HOME BUILDERS CATALOG to your customers for an evening or two and they will discover for themselves many things they will wish you to include in the homes you build for them. As a means of raising the standard of customer appreciation of better homes you can have no more potent aid than HOME BUILDERS CATALOG.

A Style Show of Homes

Many illustrations of houses in the ever-popular American Colonial and Dutch Colonial styles are included in HOME BUILDERS CATALOG — some strictly authentic, while others show modern modifications of these styles. With this great reference book to aid you you can quickly determine the type of house that will most be satisfactory to your customer.

Remember that each house shown *has actually been built.* All illustrations are from photographs of the completed house, a more convincing presentation than is possible when the customer must imagine how the house will look from the blue.print drawings.

Creates Desire for Better Homes

The live, wide-awake contractor who uses HOME BUILDERS CATALOG to illustrate to prospective home builders not only the various styles of houses but the particular types of materials he proposes to use in each part of the house will find it easier to arrive at a perfect understanding when his customer is able to visualize what he is going to get for his money.

To the average man or woman the construction of a house is somewhat of a mystery, which is why they often buy an old house instead of building a new one for themselves. The old house may not be exactly what they want but, at any rate, it is something tangible—they know what they are getting—while they find it difficult to picture to themselves the home you propose to build for them, with nothing but the blueprint plans to illustrate it.

But with HOME BUILDERS CATALOG to aid you this difficulty disappears. You can show your customer just how the house you propose to build for him will look when finished. You can show him, in the Manufacturers' Section, every kind of material you propose to use in wall, partition and roof construction, flooring, exterior and interior trim, etc., together with the heating plant, hot water supply, bathroom and laundry fixtures, lighting equipment, and built-in conveniences. In short, you can show him, part by part, the house itself. With HOME BUILDERS CATALOG to aid you you can build more and better homes because it instills confidence in your customers to have every detail of construction made clear to them in advance.

How To Use This Book

Suppose your customer expresses a preference for frame, brick, hollow tile, concrete block or stucco construction. You turn at once to the Plan Section and show him scores of different designs in all of which the type of construction he prefers is used. Then you turn to the Manufacturers' Section, and here under the proper classifications you find complete information on lumber, brick, hollow tile, concrete blocks, stucco, etc., together with hundreds of illustrations, many of them in color.

Nothing short of actually building the house for him will give your customer so clear an idea of how his house will look when completed as a careful study of the Plan Section and Manufacturers' Section of HOME BUILDERS CATALOG.

Changes in Floor Plans

The floor plans shown with each photographic illustration of the completed house are those that experience has demonstrated to be best suited to that particular type of home. Nevertheless it will sometimes happen that your customer will wish minor changes made. These you can promise him, as the Architectural Department of HOME BUILDERS CATALOG is prepared to make such changes in the blueprint plans at nominal cost.

Distinctive Designs

Look at the illustration of "The Alta Vista" on page 782. Have you ever seen so much style and distinction in a house of plain gable roof construction? You can see from the picture and the floor plans that this is not an expensive house to build but it has a charm and individuality all its own that will make it the most admired house in its neighborhood.

This is only one of hundreds of similar designs that you will find in HOME BUILDERS CATALOG, each embodying features of designs, construction or interior arrangement that make them different from the ordinary run of houses.

It costs no more to build a well designed house than one that is poorly designed, in fact it usually costs less, for in the well designed house every possible saving in labor costs and materials are provided for. Part of the money you save because of better designing can be used for the purchase of better materials and you are able to build a house in which first class materials only are used for the same cost, or less, than another contractor charges for a house constructed of inferior materials.

Build Reputation Into Your Houses

Nothing so increases the business of a building contractor as a reputation for building homes of character—homes that are beautiful and distinctive in design and built of nationally known and approved materials. HOME BUILDERS CATALOG gives you in one great reference work the best designs and complete information concerning all classes of the best building materials.

A Never-Failing Source of Inspiration

"He builds wisely who builds well," but the home that is suitable for one family is not suitable for another, therefore in HOME BUILDERS CATALOG you will find all sizes and types of homes, ranging in cost from $3,500 to $15,000. Each design has something about it that distinguishes it from the ordinary stock-plan house and each has actually been built from the plans we furnish you, so there is no guess work about it.

Here in one big volume—too big to be mislaid but not too big to be easily carried with you—you have 525 illustrations and floor plans of homes and garages, frame, brick, stucco, cement block and hollow tile, each designed by a master hand and each with a charm and character of its own.

In other sections of HOME BUILDERS CATALOG are illustrations and descriptions of all the various materials used in the construction of a home, together with hundreds of suggestions for making it a more comfortable place to live in.

More practical information and suggestions for the home builder have been packed into the 1,000 pages of HOME BUILDERS CATALOG than were ever before included in a single volume. Just turning the pages at random will give you many an idea for improving the homes you build without adding to their cost. The contractor with ideas is the one the home builder likes to do business with and with HOME BUILDERS CATALOG beside you you will never lack for inspiration.

A Co-operative Catalog of Building Materials

Why burden yourself with a multitude of individual booklets and catalogs when in this one great reference work of home building construction—the HOME BUILDERS CATALOG—you have everything you can find elsewhere and in more convenient form for reference?

The arrangement of HOME BUILDERS CATALOG in sections, and the complete index of contents enables you to turn instantly to the page containing the information you desire.

A careful study of the pages of HOME BUILDERS CATALOG will reveal many ideas of great practical value—suggestions that you can pass on to your customers and that will result in better and more conveniently arranged homes.

An Authoritative Reference Book

In the preparation of HOME BUILDERS CATALOG we have not relied upon our own large staff of building experts but have had the co-operation of the leading national associations affiliated with the building industry as well as the helpful assistance of hundreds of manufacturers of building materials. We believe, therefore, that HOME BUILDERS CATALOG is destined to become the recognized authority among Building Contractors on building construction and materials.

To Be Published Annually

In order that the latest information regarding construction materials and home equipment may be available to the Building Contractor, HOME BUILDERS CATALOG will be published annually. The present volume is for the year 1926. The 1927 edition will be larger and will contain many new features. We will appreciate comments on the present volume and suggestions for improvements.

Tell us first what you think of the book now before you and how it will help you with your customers. Then, when you have studied each section carefully, tell us how we can make HOME BUILDERS CATALOG more helpful to Building Contractors.

Every Building Contractor who writes us a letter of appreciation, or helpful suggestion, will receive a copy of the 1927 edition of HOME BUILDERS CATALOG.

Home Builders Catalog Co.

431 South Dearborn St., Chicago

BISHOPRIC INTER-LOCKING BASE FOR STUCCO OR PLASTER

Made by

THE BISHOPRIC MANUFACTURING CO

CINCINNATI, OHIO

Products

Bishopric Stucco (described on next page), Bishopric Stucco Base and Plaster Base (described on this page) and Bishopric Sunfast Finish for stucco walls (described on next page).

An Insulating Re-Inforcement, Especially Designed for Stucco Work

Bishopric Base (or "Bishopric Board" as it is sometimes called) is designed especially for stucco work. It has been tested in thousands of buildings for a quarter of a century and is specified by leading architects and used by builders everywhere.

Eminent Architect Uses Bishopric Base for his Own Buildings

When an architect who stands at the top of his profession uses a building material in his own buildings you may safely follow his example. Ernest Flagg, architect of the Singer Building, New York; the Corcoran Art Gallery, Washington, D. C.; and many other notable edifices, illustrates in his book "Small Houses," a number of model homes he is erecting on his estate on Staten Island, New York. Among these are several half-timbered houses and on the plans "Bishopric" is indicated as a base for the stucco fill between the timbers.



BISHOPRIC INTER-LOCKING BASE AS IT APPEARS ON THE WALL. Bishopric Stucco being applied over it.

Bishopric Interlocking Base

Bishopric Base is the ideal foundation or backing for stucco work. It is a combination of building paper, sheathing, and insulation, none of which is required when Bishopric Base is used. It is made by heavily coating a fibre board with asphalt mastic and then pressing into the asphalt while still hot, evenly spaced, beveled wood bars. When nailed to the studs it forms a strong, rigid support for the stucco which keys perfectly between the wood bars.

Economical to Use

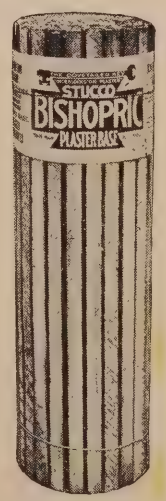
Both in first cost and in the cost of labor for applying Bishopric Base is decidedly economical. As already pointed out it takes the place of building paper, insulating material and sheathing, or lath, and is easily and quickly nailed in place since it comes in long rolls, giving the maximum of coverage with a minimum amount of labor. There is no waste.

Stronger than Lumber Sheathing

Bishopric Base has been frequently tested for strength in comparison with lumber sheathing—at Yale University by Professor Shepard, at New York City, Chicago, Milwaukee, Indianapolis, Louisville, and Memphis, by municipal officials, and elsewhere—and always with the same result; it is stronger, from 2 to 4 times stronger, than well constructed lumber sheathing. We shall be glad to send you detailed reports of these tests on request.

Bishopric Interlocking Base Is Elastic

Owing to the manner in which it is constructed Bishopric Base, while bracing the frame of the building to which it is applied is yet sufficiently elastic to take up foundation settlements and shrinkage of lumber in the frame of the building, thus relieving the stucco of these strains and preventing cracking. The spaces between the wood bars are accurately spaced to provide the proper key for the stucco and to insure a base coat of the right thickness. The fiber board and asphalt mastic provide insulation and dampproofing and Bishopric Base possesses also sounding-deadening qualities to a high degree.



BISHOPRIC INTER - LOCKING BASE is shipped in rolls like this 100 square feet to the roll.

Bishopric Interlocking Plaster Base

This is similar in construction to Bishopric Stucco Base but is designed for use on inside walls instead of exterior walls. It has all of the desirable qualities of Bishopric Stucco Base and effects a decided saving in the amount of plaster used as compared with wood lath, metal lath or hollow tile. The following figures, based on reports of leading plaster manufacturers tell the story:

NUMBER OF POUNDS OF WOOD FIBER PLASTER REQUIRED COVER 100 SQUARE YARDS OF WALL SURFACE

On wood lath	1400 to 1700 lbs.
On metal lath	1800 to 2000 lbs.
On hollow tile	2200 to 2700 lbs.
On bishopric base	1050 to 1275 lbs.

BISHOPRIC BASE

The insulating REINFORCEMENT

FOR EVERY STUCCO OR PLASTER WALL

For further details and literature, write to: **THE BISHOPRIC MANUFACTURING CO., Cincinnati, Ohio**

See Next Page

Bishopric Stucco and Sunfast Finish

Made by
THE BISHOPRIC MANUFACTURING CO.,
CINCINNATI, OHIO



Residence of John Christensen, Cincinnati, Ohio. Bishopric Stucco and Ivoril Cream Sunfast Finish over Bishopric Base. Richardson Roof of Opal Super-Giant Shingles.

The color diagram below shows the twelve attractive tints of Bishopric Sunfast Finish. One of these beautiful color tones can be selected to blend artistically with the general color design of any building.



BISHOPRIC STUCCO

Bishopric Stucco is a super-stucco with surplus strength which provides durability and protection to every building—Fire-proof, Weather-proof, Insulating—it is built to endure.

SUNFAST FINISH

BISHOPRIC SUNFAST FINISH is the special color stucco finish in a complete range of beautiful colors that transforms any house of stucco, stone, concrete or brick. It can be applied over Bishopric Stucco in any stipple, spatter-dash, rough-cast, hand palmed or special trowel finish.

Sunfast Finish fulfills the dream of the house beautiful. It is weather-proof and permanent.

Bishopric Stucco and Sunfast Finish save *Time and Labor* because there is nothing to add but water on the job. There is no special mixing required, and the application is simple.

CONVENIENT PACKAGE

Bishopric Stucco and Sunfast Finish DO NOT contain weakening fillers and are GUARANTEED a pure super-stucco mix of maximum strength, density and water-resistance.

Bishopric Stucco and Bishopric Sunfast Finish are shipped in air-tight metal drums, keeping the product as fresh as the day it was made. This modern, up-to-date package eliminates loss from setting up, either in transit, warehouse or on the job.



THE DRUM
Bishopric Stucco and Sunfast Finish packed in airtight metal drums.

See Other Side For

BISHOPRIC BASE

The insulating REINFORCEMENT
FOR EVERY STUCCO OR PLASTER WALL

For further details and literature, write to: **THE BISHOPRIC MANUFACTURING CO., Cincinnati, Ohio**

Richardson Multicrome Roofs

Manufactured by

THE RICHARDSON COMPANY

Lockland, (Cincinnati) Ohio

Chicago; New Orleans; Atlanta; Dallas; 250 W. 57th St., New York City; 63 Albany St., Cambridge (Boston)

West Coast Distributor: Zellerbach Paper Company, San Francisco

Products:

Richardson Multicrome Roofs (built of Richardson Super-Giant Shingles); Lok-Top Asphalt Shingles; Viskalt Membrane Roofs; Rubbertex Roll Roofings; Flex-a-tile Style-4 Slab Shingles; Individual Shingles; Smooth and Slate-Surfaced Roll Roofing; and a complete line of Viskalt Paints, Cements and Coatings.

The Roof In Color Harmony.

Complete harmony of color, outside as well as in. That's the modern note in home decoration.

True, the roof of a home must give protection against the elements. It must last. But as a prominent architectural feature of the house, it should also add to its beauty.

Indeed, in a wise choice of roof, body and trim color lies your greatest opportunity to make beautiful the home you build.

Realizing this, Richardson now offers you twelve distinctive roof colorings—many of them wholly new.

In the slate surfacing of Richardson Multicrome Roofs, a rich variety of color has been created, hitherto approximated only in much more expensive types of roofs. In the panel below is given a complete list of the basic Richardson colors. Eight of them are shown on the other side of this page, together with a chart suggesting a few of the combinations in house trim, body and roof color which authorities especially recommend.

To Help You Choose.

To help you choose the right roof for the right house, Richardson has prepared an authoritative booklet *What Color for the Roof?*

In it, there is page after page of beautiful homes in different architectural styles, all in color to show the most tasteful effects in body, trim and roof combinations. Interestingly explained, too, are the principles of all good color schemes.

And with the Richardson Harmonizer which it contains you can see the complete effect of 54 different roof and house combinations.

The price of the book and harmonizer is 25c. Write us, today, for your copy.

50% Thicker Than the Ordinary Roof.

The Multicrome Roof is built of Richardson Super-Giant Shingles—extra large, extra heavy. Its 50% greater thickness adds years of endurance. Its base is sturdy, long-fibre Richardson felt. Its waterproofing is Viskalt—99.8% pure bitumen, especially vacuum-processed. Its surface is slate in close, overlapping flakes—further protection against weather and fire hazards.

This roof gives the maximum value at a moderate price. It is economical to lay and equally good for new or over-the-old-roof jobs.

The Multicrome Thatch.

This new Richardson roof, with its blended tones of weathered brown and dull red suggests the mellow English downs in every curve. It is an easy roof to apply, too. No expensive cutting or trimming is necessary to secure the realistic thatch effect. It comes in convenient sections, ready to lay.

The Nine Basic Richardson Colors

Weathered Brown
Antique Brown
Jade Green
Gray Green
Tile Red
Dull Red
Dusk Blue
Heather Purple
Black Pearl

Three Exclusive Blends

Opal—a beautiful mingling of weathered brown and gray green.

Bronze Mosaic—an unstudied mixture of weathered brown and old red.

Duotone Brown—a combination of two rich tones, antique brown and weathered brown.



A Richardson Multicrome Roof in Antique Brown shown on a house of cream Bishopric Stucco on Bishopric Base

For further details and literature, write to: **THE RICHARDSON COMPANY** Lockland, (Cincinnati) OHIO



Jade Green
Gray Green Is Also a Basic Richardson Color



Dusk Blue



Dull Red



Antique Brown



Black Pearl



Heather Purple



Tile Red



Weathered Brown

HOUSE COLOR	TRIM COLOR				
	White	*Cream*	*Brown*	*Green*	*Blue*
White	◈	Opal * Onyx * Duotone Brown *	Weathered Brown Duotone Brown * Tapestry Tan * Bronze Mosaic *	Opal * Onyx * Jade Green	50% Opal 50% Dusk Blue 75% Dusk Blue 25% Black Pearl
Cream	Opal * Onyx * 50% Opal 50% Bronze Mosaic	◈	50% Duotone Brown 25% Opal 25% Heather Purple Duotone Brown *	Opal * Onyx * Jade Green	Weathered Brown Tapestry Tan * 50% Duotone Brown 50% Heather Purple
Brown	50% Duotone Brown 25% Opal 25% Heather Purple Duotone Brown *	50% Duotone Brown 25% Opal 25% Heather Purple Tapestry Tan *	◈	◈	Weathered Brown Tapestry Tan * 50% Duotone Brown 50% Heather Purple
Gray	50% Opal 50% Dusk Blue 75% Dusk Blue 25% Black Pearl	50% Dull Red 50% Opal 50% Duotone Brown 50% Heather Purple	50% Duotone Brown 25% Opal 25% Heather Purple Opal *	50% Opal 50% Dusk Blue 50% Opal 50% Heather Purple	50% Opal 50% Dusk Blue 75% Dusk Blue 25% Black Pearl
Red Brick	Tapestry Tan * 50% Antique Brown 25% Dull Red 25% Heather Purple	50% Dull Red 25% Tile Red 25% Heather Purple Bronze Mosaic *	◈	Onyx * Opal * Tapestry Tan *	Onyx * Tapestry Tan * Opal *

*These roofs are formed of the following shingle combinations:

Opal	Bronze Mosaic	Duotone Brown	Tapestry Tan	Onyx
10% Weathered Brown 10% Gray Green 80% Opal	10% Weathered Brown 10% Dull Red 80% Bronze Mosaic	10% Weathered Brown 10% Antique Brown 80% Duotone Brown	50% Weathered Brown 25% Opal 25% Bronze Mosaic	50% Jade Green 25% Opal 25% Bronze Mosaic

Opal, Bronze Mosaic and Duotone Brown roofs come mixed in the bundle—ready to lay.

A PRACTICAL PLAN SERVICE

The Plan Service available in connection with Home Builders Catalog is the most comprehensive and practical ever devised for the benefit of building contractors. Every one of the 696 plans of frame, brick, brick veneer, tile and stucco houses and garages illustrated in this great reference work of home building construction has actually been built. You can show your customer in Home Builders Catalog an illustration of his home as it will appear when finished—made from a photograph—the house, itself, surrounded by trees, lawn and flowers. This is what home builders want—photographic illustrations, not imaginary drawings of what you propose to build for them.

We maintain a large force of architectural designers, engineers and estimators, all men of long experience and proven ability. Our homes are thoroughly modern in every particular, yet designed with a practical knowledge of building materials and construction methods that enable the contractor to keep the price within limits that the average home builder can afford.

Home Builders Catalog is published by the same men who for 12 years have conducted the Architectural & Publicity Bureau—the Bureau whose plan service is used by eleven of the leading Retail Lumber Associations of America.

Because of our long experience in this line of work, our large and capable staff of building experts, and the great volume of business we do, we are able to produce and furnish blue-print plans, specifications, material lists, etc., of higher quality and at a lower price than any other concern.

HOME BUILDERS CATALOG is our latest and most effective aid to building contractors—a book that will enable you to build more and better homes.

This book illustrates the largest assortment of original and modern home designs yet published, and we believe will completely answer the individual needs of every enterprising and up-to-date builder. All plans were selected for their distinctive architectural merits and adaptability to the modern trend in home design and construction.

The illustrations include about:

225 Homes of *All Frame Construction.*
125 Homes of *Brick Construction.*
125 Homes with *Stucco Outside Walls.*
51 Garages of *Popular Type.*

together with additional plans of homes, illustrated with plans for designing with and without basements, totaling 696 different plans.

Detailed Blue-Print Working Plans

The blue-prints for each home or garage include all elevations, floor plans, sections and details necessary to enable the contractor to erect with a clear understanding and show all dimensions and notations, leaving nothing to guess work, thus saving much time and labor also insuring against errors.

Classified Guide for Listing Quantity of Materials

This includes 16 pages, made up in systematic form that enables the contractor to take off accurately and quickly, quantities of materials without danger of omitting important items.

Specifications and Blank Contract Forms

With each set of plans are also furnished, Specifications and Contract forms. The Specifications enable the contractor to erect building in a manner satisfactory to the owner and state clearly all essential terms of the agreement between owner and contractor, thus helping to prevent misunderstandings and disputes.

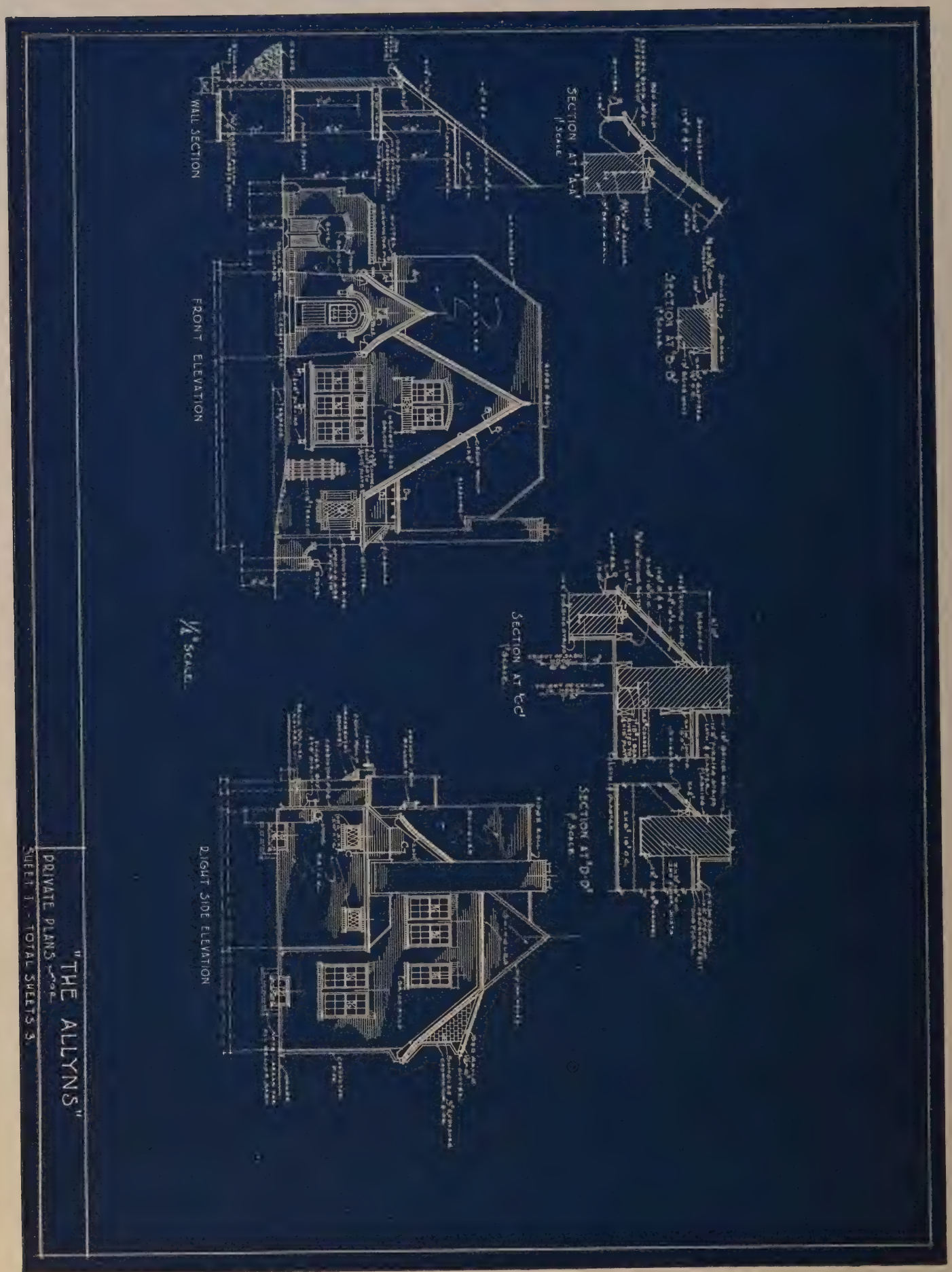
The Contract Forms give legality to the agreement set forth in the Specifications.

Plans Altered to Suit Home Owner

We maintain a Service Department for the purpose of co-operating with the contractor in altering blue-print plans to conform to the wishes of his customers. Our charge for such alterations is very reasonable.

SPECIMEN OF BLUE PRINT WORKING PLANS

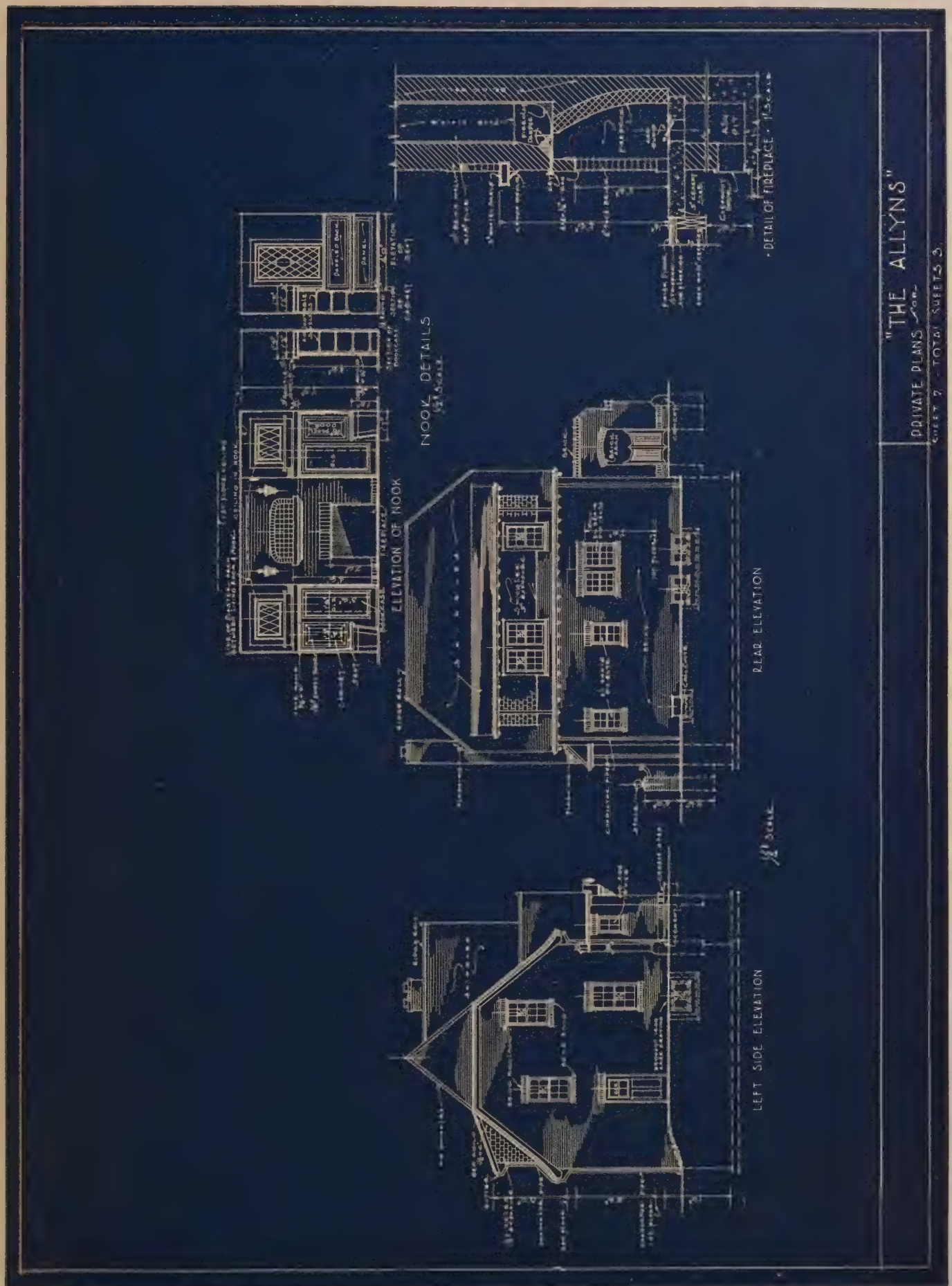
ILLUSTRATION IS ABOUT ¼ ACTUAL SIZE



☞ ABOVE IS SHEET NO. 1 OF THE COMPLETE THREE-SHEET SET OF PLANS.
NOTE: ALL ELEVATIONS AND FLOOR PLANS ARE MADE TO A STANDARD SCALE OF ¼-INCH TO FOOT.

SPECIMEN OF BLUE PRINT WORKING PLANS

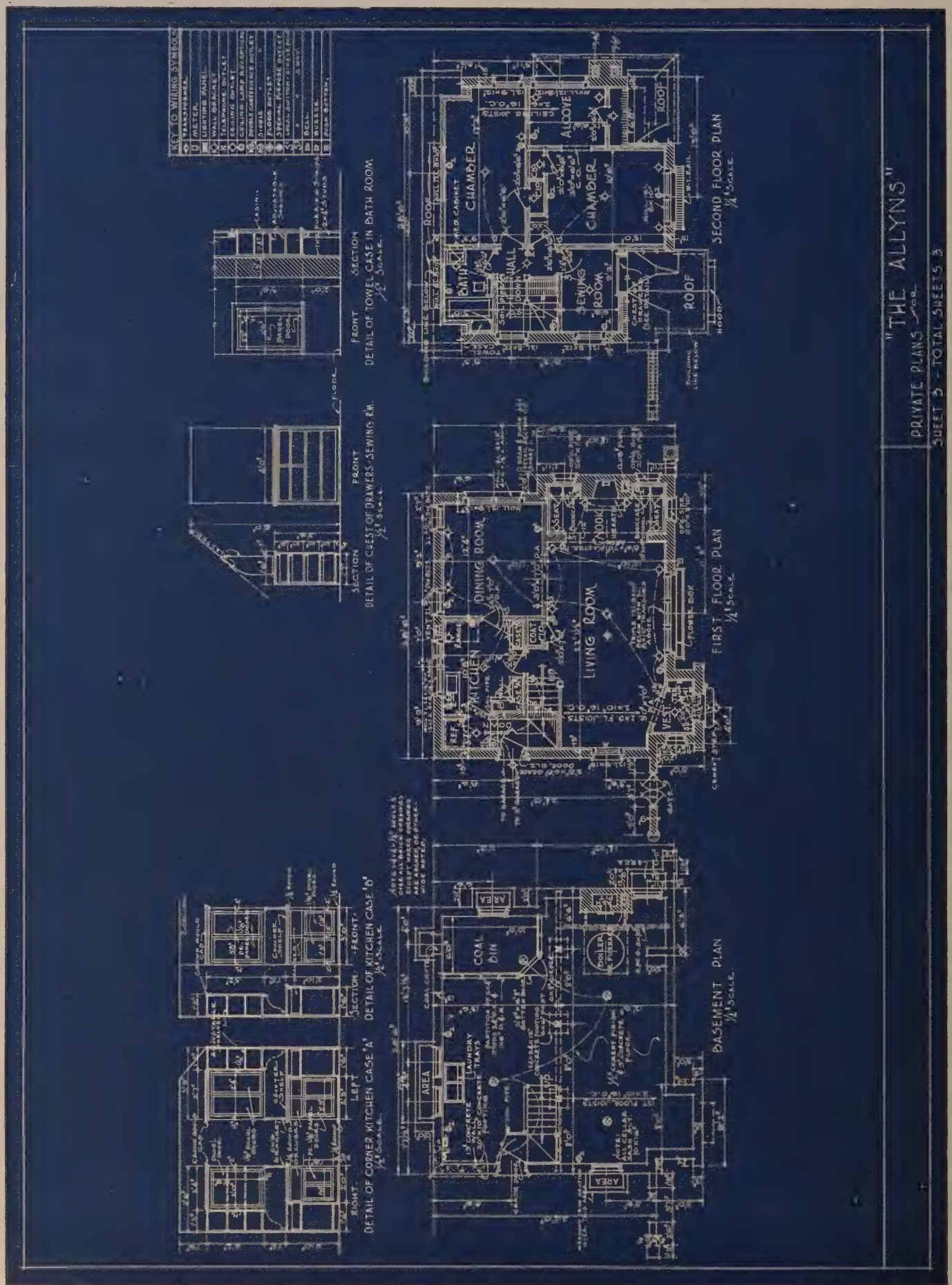
ILLUSTRATION IS ABOUT ¼ ACTUAL SIZE



☞ ABOVE IS SHEET NO. 2 OF THE COMPLETE THREE-SHEET SET OF PLANS.
NOTE: ALL ELEVATIONS AND FLOOR PLANS ARE M ADE TO A STANDARD SCALE OF ¼-INCH TO FOOT.

SPECIMEN OF BLUE PRINT WORKING PLANS

ILLUSTRATION IS ABOUT ¼ ACTUAL SIZE



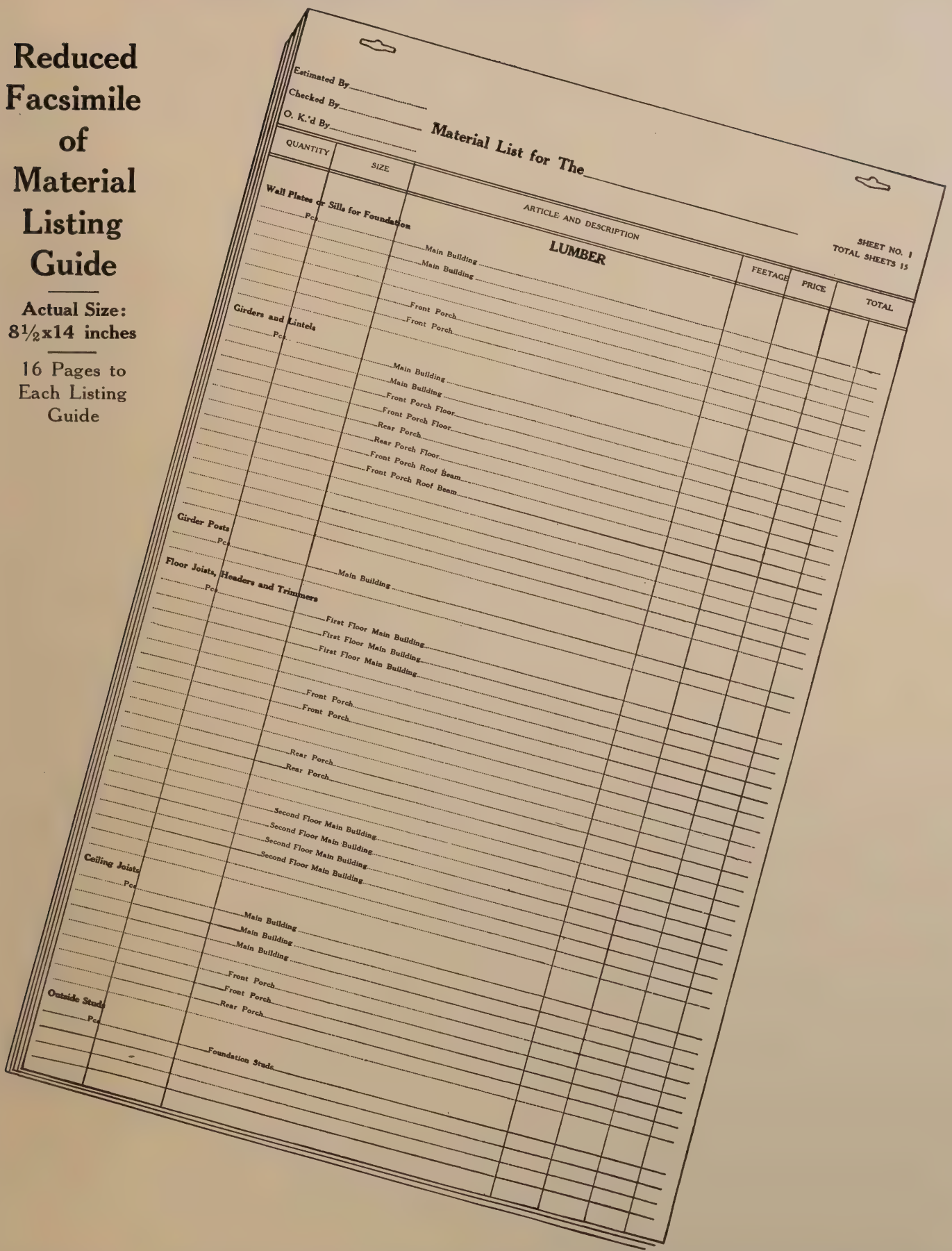
☞ ABOVE IS SHEET NO. 3 OF THE COMPLETE THREE-SHEET SET OF PLANS.
NOTE: ALL ELEVATIONS AND FLOOR PLANS ARE M ADE TO A STANDARD SCALE OF ¼-INCH TO FOOT.

MATERIAL LISTING GUIDE

Reduced Facsimile of Material Listing Guide

Actual Size: 8½x14 inches

16 Pages to Each Listing Guide


Estimated By
Checked By
O. K.'d By
Material List for The
SHEET NO. 1
TOTAL SHEETS 15
QUANTITY
SIZE
ARTICLE AND DESCRIPTION
FEETAGE
PRICE
TOTAL
LUMBER
Wall Plates or Sills for Foundation
Pcs.
Main Building
Main Building
Front Porch
Front Porch
Girders and Lintels
Pcs.
Main Building
Main Building
Front Porch Floor
Front Porch Floor
Rear Porch
Rear Porch Floor
Front Porch Roof Beam
Front Porch Roof Beam
Girder Posts
Pcs.
Floor Joists, Headers and Trimmers
Pcs.
Main Building
First Floor Main Building
First Floor Main Building
First Floor Main Building
Front Porch
Front Porch
Rear Porch
Rear Porch
Second Floor Main Building
Second Floor Main Building
Second Floor Main Building
Second Floor Main Building
Ceiling Joists
Pcs.
Main Building
Main Building
Main Building
Front Porch
Front Porch
Rear Porch
Outside Studs
Pcs.
Foundation Studs

MATERIAL LISTING GUIDE One complete listing guide of materials—16 pages. This list is divided into sections covering foundation material, lumber, millwork, roofing, flooring, plaster, paint, hardware, etc. Nothing omitted. If you use this list you will be sure that every essential item of material is included in your estimate. Saves hours of time and prevents costly omissions.

SPECIFICATIONS



REDUCED FACSIMILE of Specifications

Actual Sizes:
8½x14 inches

24 pages to Each Specification

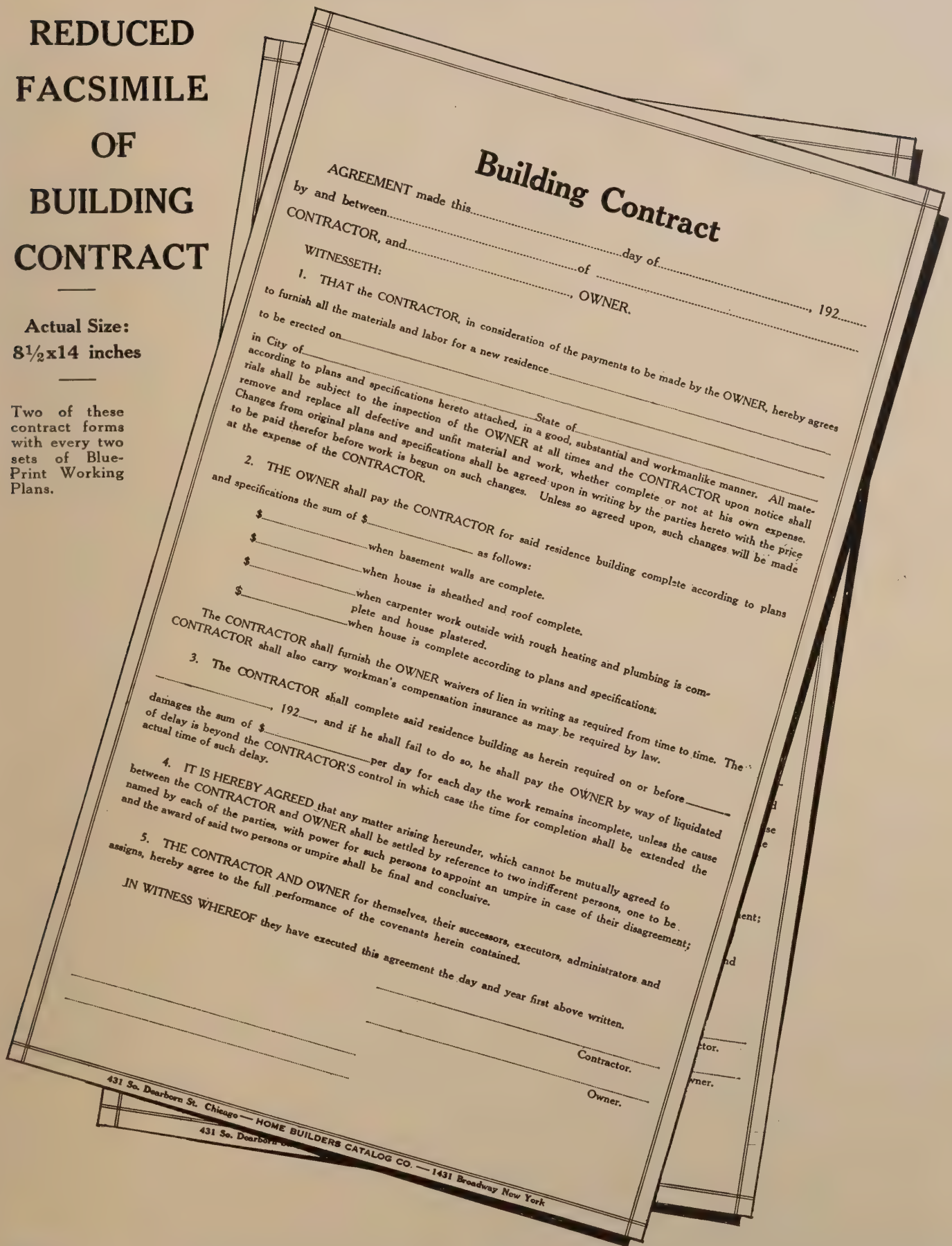
EXACTING SPECIFICATIONS Nothing is so likely to prevent misunderstanding as a full and complete statement of what you propose to furnish. These specifications have been prepared by experienced architects and builders and cover each house illustrated in HOME BUILDERS CATALOG. Everything is set down in black and white—nothing is left to the imagination.

BUILDING CONTRACTS

REDUCED FACSIMILE OF BUILDING CONTRACT

Actual Size: 8½x14 inches

Two of these contract forms with every two sets of Blue-Print Working Plans.



Building Contract

AGREEMENT made this ..... day of ....., 192....

by and between ....., of .....

CONTRACTOR, and ....., OWNER.

WITNESSETH:

1. THAT the CONTRACTOR, in consideration of the payments to be made by the OWNER, hereby agrees to furnish all the materials and labor for a new residence ..... to be erected on ..... State of ..... in City of ..... according to plans and specifications hereto attached, in a good, substantial and workmanlike manner. All materials shall be subject to the inspection of the OWNER at all times and the CONTRACTOR upon notice shall remove and replace all defective and unfit material and work, whether complete or not at his own expense. Changes from original plans and specifications shall be agreed upon in writing by the parties hereto with the price to be paid therefor before work is begun on such changes. Unless so agreed upon, such changes will be made at the expense of the CONTRACTOR.

2. THE OWNER shall pay the CONTRACTOR for said residence building complete according to plans and specifications the sum of $ ..... as follows:

$ ..... when basement walls are complete.

$ ..... when house is sheathed and roof complete.

$ ..... when carpenter work outside with rough heating and plumbing is complete and house plastered.

$ ..... when house is complete according to plans and specifications.

The CONTRACTOR shall furnish the OWNER waivers of lien in writing as required from time to time. The CONTRACTOR shall also carry workman's compensation insurance as may be required by law.

3. The CONTRACTOR shall complete said residence building as herein required on or before ..... 192...., and if he shall fail to do so, he shall pay the OWNER by way of liquidated damages the sum of $ ..... per day for each day the work remains incomplete, unless the cause of delay is beyond the CONTRACTOR'S control in which case the time for completion shall be extended the actual time of such delay.

4. IT IS HEREBY AGREED that any matter arising hereunder, which cannot be mutually agreed to between the CONTRACTOR and OWNER shall be settled by reference to two indifferent persons, one to be named by each of the parties, with power for such persons to appoint an umpire in case of their disagreement; and the award of said two persons or umpire shall be final and conclusive.

5. THE CONTRACTOR AND OWNER for themselves, their successors, executors, administrators and assigns, hereby agree to the full performance of the covenants herein contained.

IN WITNESS WHEREOF they have executed this agreement the day and year first above written.

Contractor.

Owner.

431 So. Dearborn St. Chicago — HOME BUILDERS CATALOG CO. — 1431 Broadway New York

BUILDING CONTRACT **Two blank, legal contract forms to be signed by building contractor and owner. This puts your agreement with the man you are building for on a sound, legal basis and saves lawyer's fee for drawing contract.**

INDEX

Design	Page
Aaron	881
Abanda	771
Abbey	804
Abbott	552
Abel	840
Abercorn	542
Aberdeen	793
Aberdour	785
Aberfoyle	764
Abernathy	648
Abigail	564
Abila	575
Abilene	1011
Abington	546
Abner	942
Accomac	571
Accord	781
Accotink	959
Achilles	759
Ackley	777
Ackworth	934
Acmar	1005
Acme	763
Acoma	1001
Acora	683
Acorn	981
Acquaviva	866
Acres	525
Acton	952
Adaburg	1012
Adair	547
Adako	730
Adalanto	860
Adam	713
Adamant	597
Adamsburg	591
Addington	903
Addison	626
Adela	863
Adelaida	719
Adelino	673
Adelphi	733
Adena	999
Adernaunt	814
Adger	710
Adial	627
Adirondack	602
Adler	556
Admaston	707
Admiral	760
Adolphus	886
Adona	641
Adoniram	1904
Adstock	787
Advance	643
Aetna	758
Afton	801
Agate	521
Agawam	696
Agenda	617
Agerton	770
Agincourt	767
Agnos	995
Agora	716
Agosta	583
Agra	855
Aguila	969
Aguinaldo	890
Ahearn	991
Aiken	652
Ailston	927
Aimwell	1008
Ainger	1015
Ainsworth	639
Airdrie	698
Airmont	646
Ajax	685
Akely	582
Akron	877
Akutan	961
Alabama	720
Aladdin	524
Alaga	800
Alameda	676
Alamode	829
Alamota	841
Alanreed	837
Alarka	726
Alaska	847
Alaton	642
Alba	873
Albanel	573
Albano	624
Albany	605
Albermarle	832
Alberhill	936
Alberta	947
Alberton	577
Albia	528
Albion	680
Albrecht	665
Albuna	725
Alburgh	918
Alburnett	674
Alby	910
Alcade	929
Alcester	791
Alcino	990
Alco	828
Alcomdale	574
Alcony	880
Alcova	962
Aldeno	669
Alderdale	537
Aldergrove	834
Alderly	705
Alderson	930
Aldersyde	940
Aldine	909
Aldon	783
Aldrich	539
Aleda	672
Alembic	946
Alena	620
Alert	682
Alesia	687
Alex	677
Alexander	633
Alford	950
Algansee	979
Alger	911
Algerita	827
Algernon	701
Algoa	549
Algonquin	780
Alhambra	616
Alicia	985
Alinda	615
Alitak	876
Alkabo	718
Allaird	788
Allaire	558
Alfais	567
Allamoore	813
Allan	795
Allanwood	925
Allbrook	548
Alledonia	774
Allegan	596
Allegany	945
Allenburg	891
Allene	699
Allerton	773
Alliance	928
Allinton	799
Allison	590
Allister	635
Alloway	737
Allsboro	589
Allyns	900
Almagro	595
Almena	526
Almeria	898
Almond	727
Almonte	926
Almora	805
Almota	723
Almyra	693
Aloma	691
Alonsa	973
Alpena	1014
Alpha	581
Alphaba	921
Alpine	894
Alpoca	649
Alport	689
Alps	560
Alsatia	857
Alsea	704
Alsen	853
Alsey	706
Alston	555
Alsuma	544
Alta	678
Altair	850
Altamont	790
Altapass	657
Altario	826
Alta Vista	782
Altecrest	895
Altenwald	899
Altera	820
Althorpe	746
Altoga	563
Alton	754
Altoona	907
Altro	992
Altura	830
Altus	897
Alvadore	844
Alvarado	797
Alvena	541
Alverda	638
Alverno	786
Alverton	901
Alvira	661
Alvis	724
Alviston	978
Alvord	668
Alzada	651
Amabile	831
Amado	983
Amadore	613
Amagon	621
Amalga	607
Amalti	861
Amaranth	854
Amaroda	848
Amber	636
Amberg	768
Amberley	535
Ambia	943
Amboy	632
Ambridge	540
Ambrose	598
Amedee	838
America	932
Ames	732
Amethyst	565
Amherst	679
Amigo	715
Amiot	823
Amiret	629
Amity	888
Ammirata	821
Ammon	628
Amorosa	851
Amsden	529
Amsterdam	568
Amston	971
Amulet	819
Anabel	740
Anaconda	663
Anamosa	835
Anatone	664
Ancaster	948
Anchor	1003
Anding	882
Andover	902
Andrew	640
Andrian	708
Angerona	864
Angiola	815
Anglaize	622
Angora	987
Anita	1009
Anjou	852
Ankerton	527
Anna Lee	884
Annandale	906
Annapolis	580
Ann Arbor	913
Annawalt	684
Anniston	915
Annona	671
Anoka	553
Ansiosa	870
Ansley	765
Antelope	849
Anthony	658
Antigo	954
Antioch	862
Antlers	609
Antoine	811
Antrim	545
Antwerp	776
Anvik	1000
Apache	1006
Apalachee	809
Apalona	998
Apollo	554
Apperson	893
Appleton	530
Appomattox	662
Apponaug	905
Apsley	745
Aquadale	977
Aquasco	988
Aquetong	986
Aragon	659
Arapahoe	869
Arbala	610
Arbella	694
Arboga	994
Arboles	958
Arbor	798
Arborg	593
Arborhill	603
Arbutus	865
Arcadia	647
Arcanum	996
Arch	966
Archbold	993
Archcliff	904
Archer	949
Archive	965
Archuleta	714
Arcola	866
Arcus	625
Ardara	769
Ardel	711
Arden	619
Arditta	824
Ardmagh	842
Ardmore	778
Ardness	717
Ardoch	951
Ardsley	775
Argenta	756
Argo	875
Argolis	744
Argonia	975
Argonne	536
Argosy	752
Argus	761
Argyle	757
Arietta	856
Ariole	874
Arion	569
Ariosa	675
Ariss	653
Arista	681
Ariton	608
Arizona	660
Arkalon	709
Arkansas	656
Arkdell	722
Arkell	984
Arkinda	739
Arkley	796
Arkoma	963
Arkwright	599
Arley	736
Arling	551
Arlington	922
Arlomont	766
Arma	618
Armada	584
Armadale	846
Armand	644
Armida	839
Armington	887
Arminto	845
Armistad	872
Armitage	892
Armorel	1007
Armour	522
Arms	836
Armstead	792
Armstrong	937
Arnaud	631
Arnold	531
Arnot	953
Aromas	858
Aroya	989
Arrant	816
Arriba	654
Arrow	667
Arrowood	614
Arstine	532
Artemas	955
Artesian	914
Artex	833
Arthyde	738
Artland	611
Artois	734
Arvada	604
Arvel	533
Arvonia	976
Arundel	612
Asbury	731
Ashaway	670
Ashbourne	938
Ashby	623
Ashcroft	579
Asherton	550
Ashford	917
Ashfork	561
Ashippun	982
Ashkum	697
Ashland	939
Ashmont	751
Ashtabula	843
Ashtola	941
Ashton	762
Ashuelot	601
Ashurst	666
Ashville	637
Askew	964
Askin	883
Asotin	655
Aspermont	806
Aspetuck	690
Aspgrove	878
Aspinwall	692
Assumption	957
Assunta	859
Assyria	974
Astor	908
Atchinson	956
Atco	695
Athalmler	700
Athens	808
Atherley	935
Atherton	802
Athlone	742
Athol	686
Atkins	634
Atlanta	779
Atlanthus	712
Atlantic	592
Atlas	606
Atlin	702
Atmore	645
Atolia	735
Atoka	600
Attercliff	586
Attica	967
Attila	650
Attleboro	753
Atwater	933
Atwell	970
Atwood	572
Auberry	562
Aubigny	960
Auburn	566
Auburndale	755
Aucilla	812
Audley	585
Audubon	721
Augusta	867
Aulander	570
Aulich	944
Aultman	1010
Aurantia	871
Aurelia	728
Aurelle	980
Aurey	741
Aurich	534
Auricula	818
Aurilla	807
Aurora	794
Ausable	810
Austin	538
Australia	919
Auter	879
Autney	576
Autumn	588
Auvergne	912
Avalon	743
Avawam	729
Avena	594
Avenstoke	688
Aventia	817
Avenue	587
Avera	630
Averett	923
Averill	543
Avers	924
Avesta	916
Avignon	997
Avilla	822
Avoca	578
Avon	784
Avondale	920
Avonmore	885
Axis	703
Axtell	557
Ayden	1002
Aydlett	1013
Ayers	789
Aylesbury	523
Aylesford	968
Aylmer	931
Aylor	972
Aynor	803
Ayrshire	772
Azalia	889
Azilda	559
Azteck	896
Azurea	825
Chatauqua	749
Mankato	747
Miami	750
Mineola	749
Oconto	748
Onondago	750
Owasco	747
Pewaukee	750
Saranac	748
Saratoga	747
Shawano	748
Winnebago	749

GARAGES

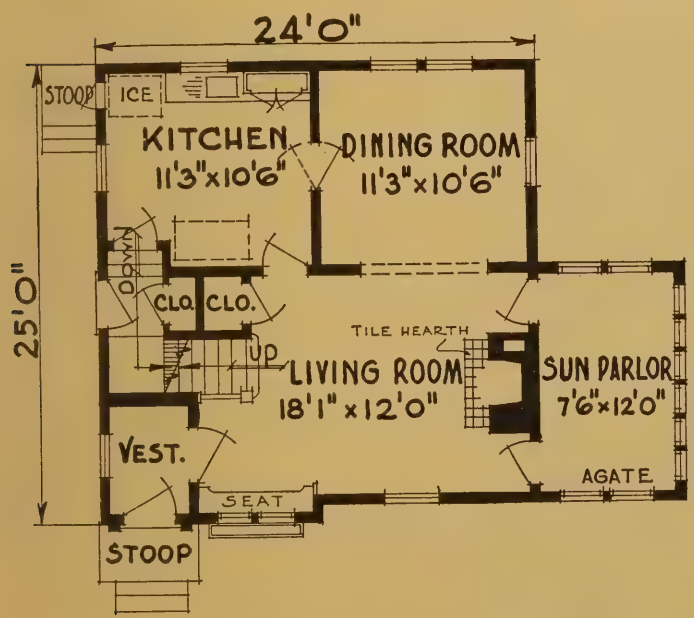
Buick	1016
Cadillac	1031
Case	1019
Chandler	1021
Chevrolet	1017
Chrysler	1022
Cleveland	1019
Cole	1025
Columbia	1027
Cunningham	1025
Dodge	1016
Dort	1028
Duesenberg	1025
Earl	1021
Essex	1018
Flint	1029
Ford	1017
Franklin	1023
Gray	1017
Hudson	1023
Hupmobile	1030
Jewett	1018
Jordan	1028
Kissel	1026
La Fayette	1022
Lincoln	1032
Locomobile	1030
Marmon	1027
Maxwell	1020
McFarlan	1032
Mercer	1029
Moon	1027
Nash	1018
Oakland	1023
Oldsmobile	1028
Overland	1020
Packard	1032
Paige	1031
Peerless	1024
Pierce Arrow	1026
Reo	1016
Rickenbacker	1029
Star	1020
Stearns Knight	1024
Stephen	1026
Studebaker	1031
Stutz	1019
Velie	1030
Westcott	1022
Willys Knight	1024
Winton	1021



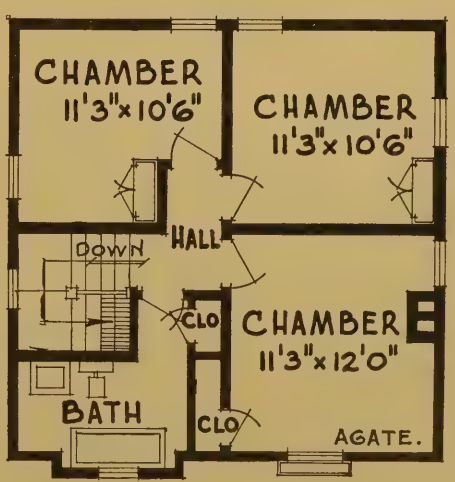
6 Rooms, Bath and Sun Parlor

"The AGATE"

24 Ft. Wide x 25 Ft. Deep



CAREFUL designing of roof lines on the part of the architect accounts for the beauty of the "Agate." The colonial entrance further enhances it. The built-in seat in the living room, and the outside opening for ice should be noticed. This plan is worthy of careful study.



SIZES:

Extreme Width	36' 6"
Extreme Depth	31' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**..... **$20.00**

Secure above plans, etc., from your local Lumber or Building Material Dealer.

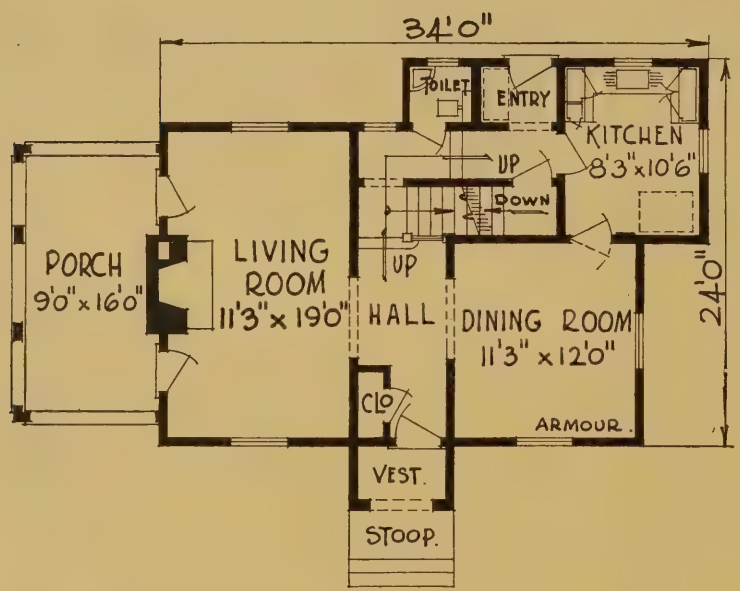
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



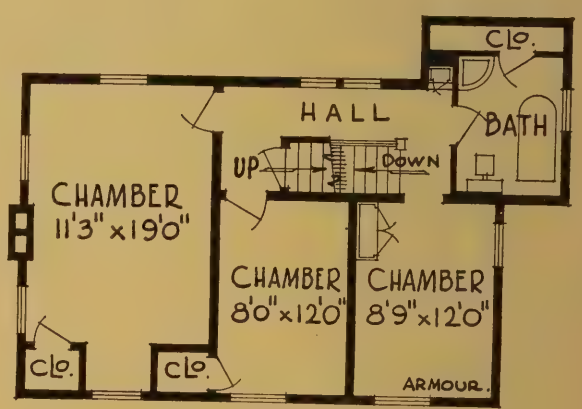
6 Rooms, Bath and Toilet

"The ARMOUR"

34 Ft. Wide x 24 Ft. Deep



THERE is a certain richness in a shingled home. Stained dark with white trim and colored shutters gives the result of a delightful old home. The "Armour" has many special features such as toilet on the first floor, kitchen cabinets, and an excellent upstairs arrangement.



SIZES:

Extreme Width	44' 6"
Extreme Depth	35' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

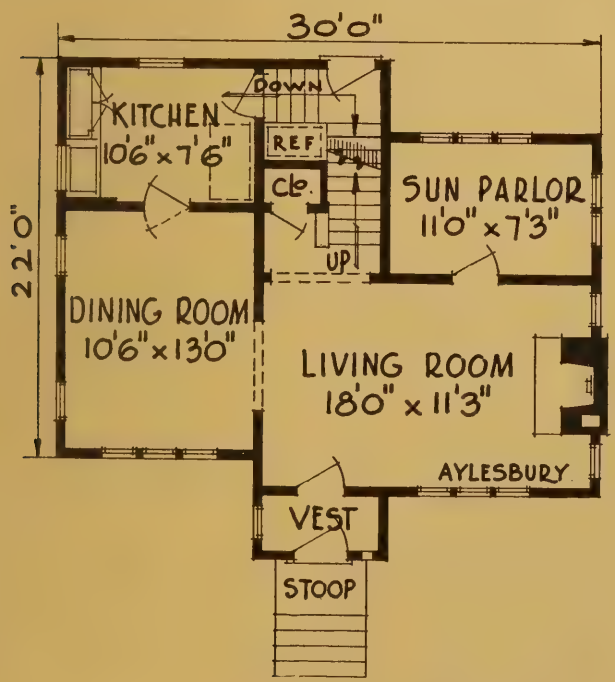


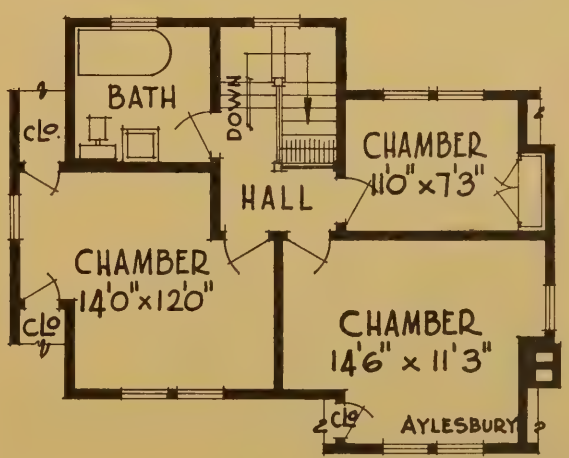
6 Rooms, Bath and Sun Parlor

"The AYLESBURY"

30 Ft. Wide x 24 Ft. Deep

MANY merging roof angles account for the distinctive appearance of the "Aylesbury." A Colonial entrance of this type fairly promises hospitality. One long continuous effect is achieved by opening the dining room off the living room. The chambers are large and are provided with plenty of closet space.





SIZES:

Extreme Width	33' 0"
Extreme Depth	36' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

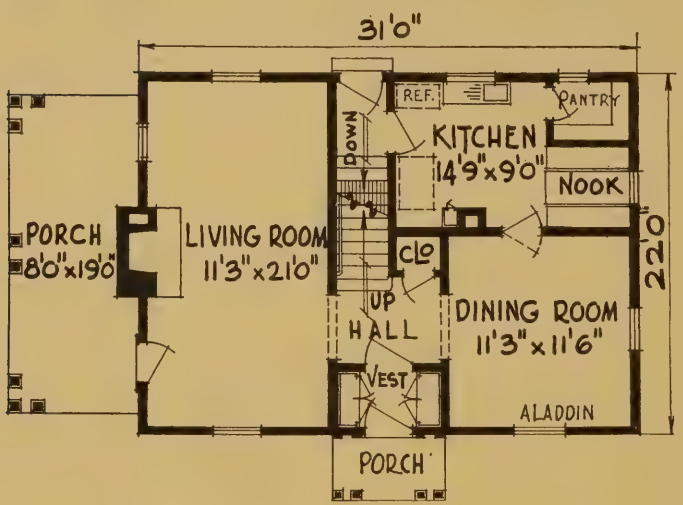
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



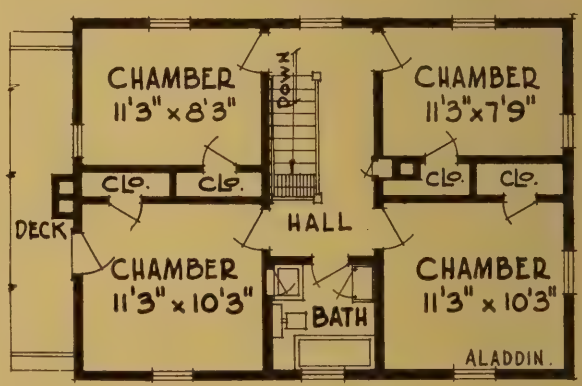
7 Rooms, Bath and Nook

"The ALADDIN"

31 Ft. Wide x 22 Ft. Deep



THE "ALADDIN" portrays modernized Colonial Architecture at its best. The large side porch and artistic entrance give the proper relief to the square shape of the house. Built-in closets in the vestibule and the cozy dining nook are added conveniences.



SIZES:

Extreme Width	41' 0"
Extreme Depth	28' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

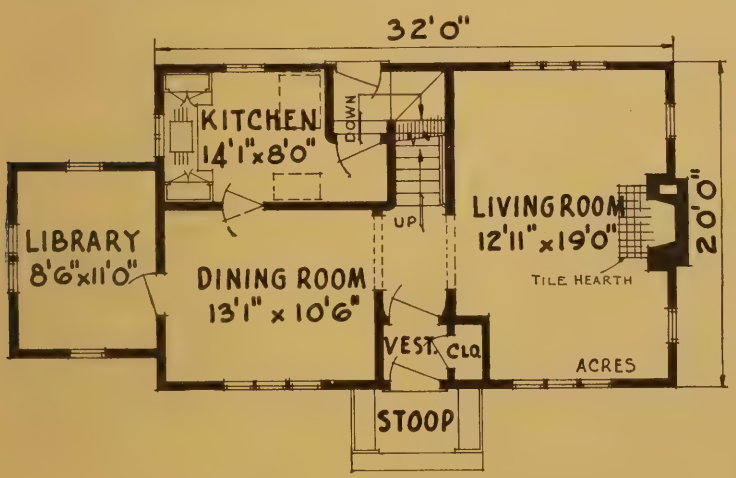
"The ACRES"

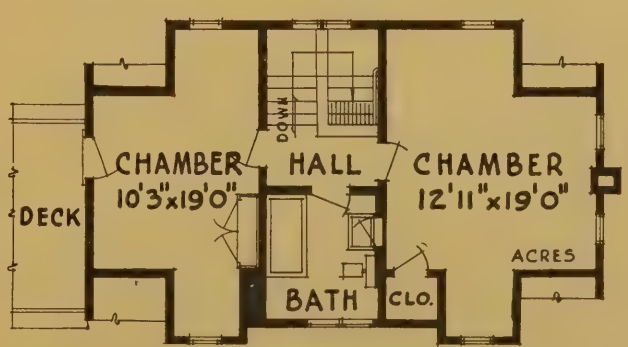
41 ft. Wide x 20 ft. Deep

A MODERN Colonial home in every sense of the word. Large rooms conveniently arranged for easy housekeeping and congenial living.

The entire dwelling including the basement is equipped with those close fitting, well balanced steel sash so appropriate for well designed homes.

If desired, the library can be used for a sleeping chamber or sun parlor.





SIZES:

Extreme Width	43' 0"
Extreme Depth	28' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

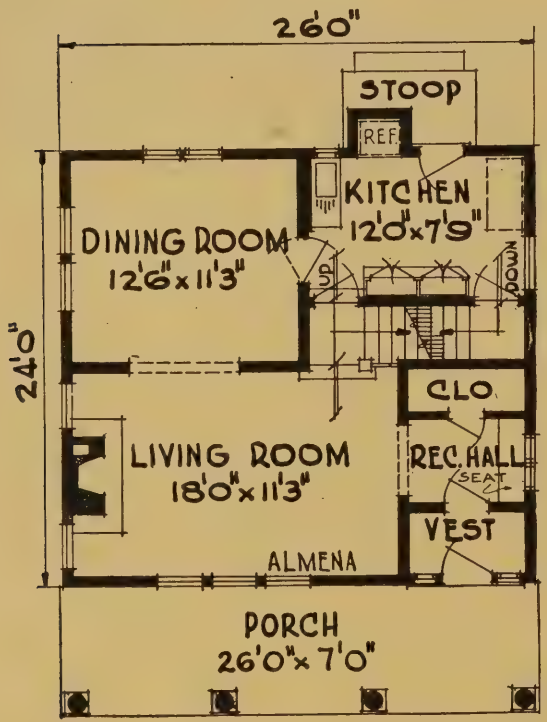
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



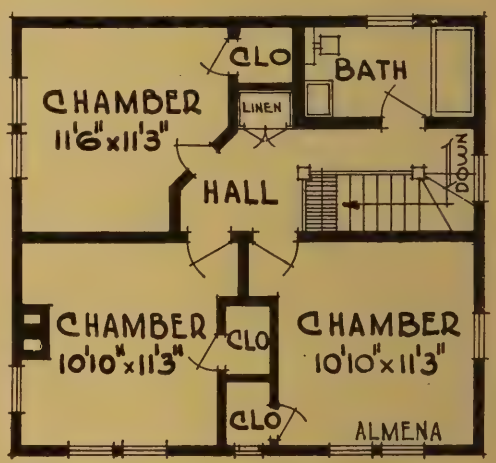
6 Rooms and Bath

"The ALMENA"

26 Ft. Wide x 24 Ft. Deep



THE large porch with its massive pillars, the broad slope of the roof, and ample windows all stamp the "Almena" a home of character. The Dutch Colonial style at its best. The central hall upstairs make for convenience and steps saved.



SIZES:

Extreme Width	29' 0"
Extreme Depth	37' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

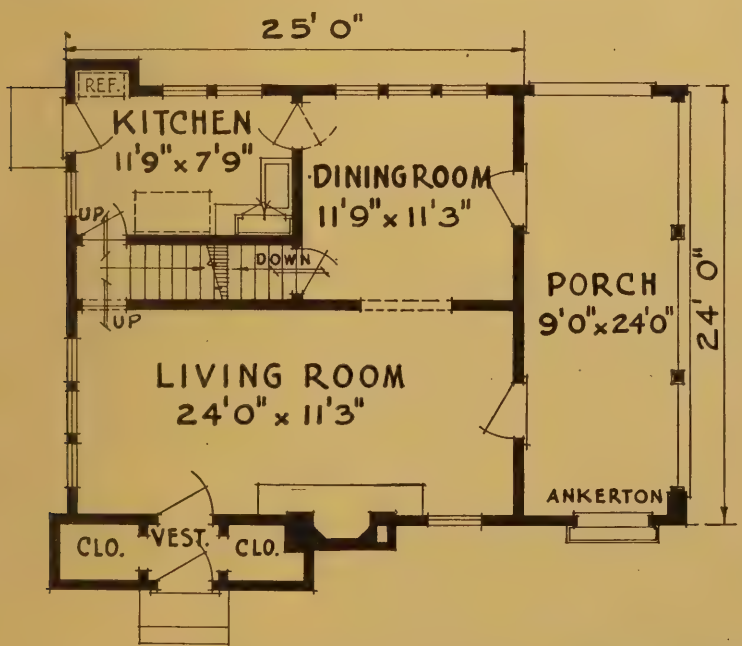


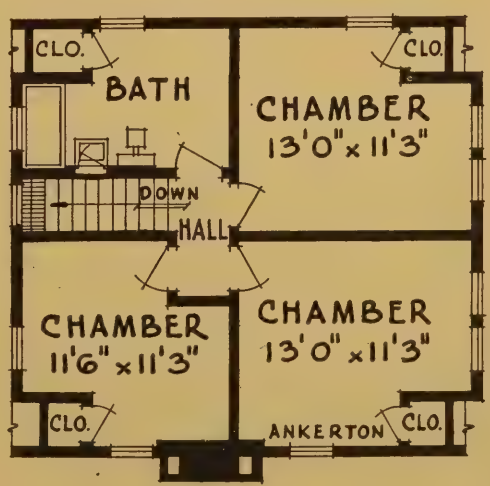
6 Rooms and Bath

"The ANKERTON"

25 Ft. Wide x 24 Ft. Deep

FULFILLING all the wonderful possibilities of modernized colonial architecture. Entrance, chimney, shutters, siding and long sloping roof are all colonial in design and tradition. The result is a home of outward beauty, and inward comfort.





SIZES:

Extreme Width	39' 6"
Extreme Depth	31' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

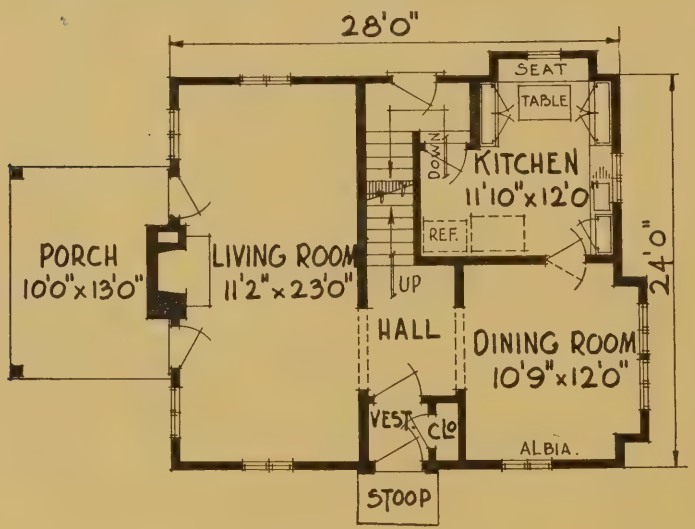


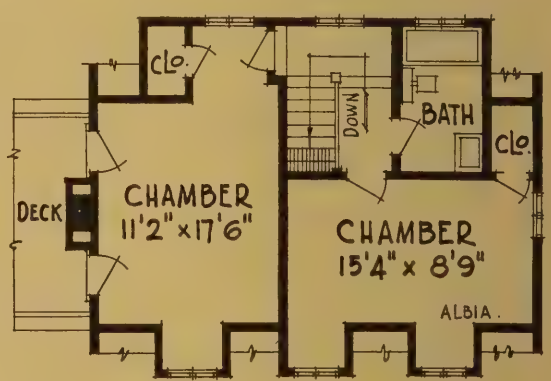
5 Rooms, Bath and Nook

"The ALBIA"

28 Ft. Wide x 24 Ft. Deep

A TASTY home to grace any suburb or community. The porte cochere with its upper deck and railing appeals instantly. In the kitchen we find built-in cupboards, and a cozy breakfast nook. The front entrance is original and appropriate. The "Albia" is a modern example of the old Cape Cod type.





SIZES:

Extreme Width	39' 6"
Extreme Depth	29' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO
Chicago.—Rochester.—Detroit.—New York.

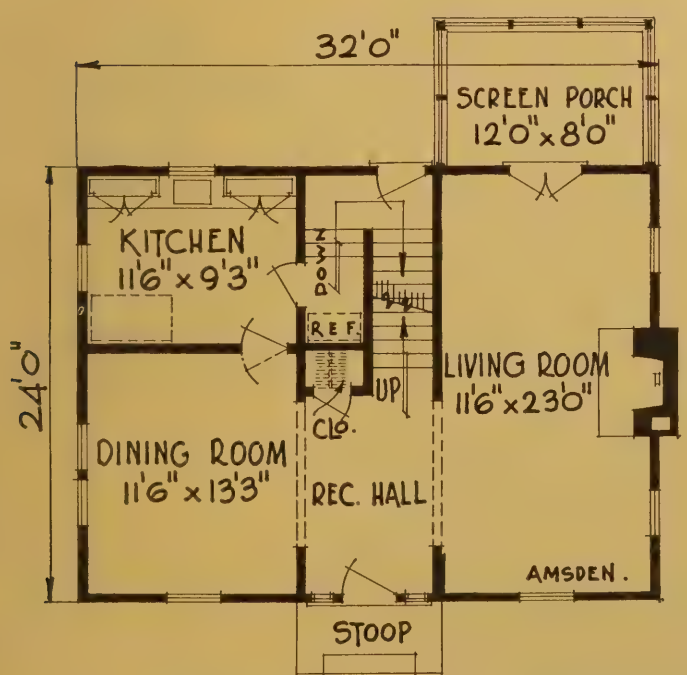


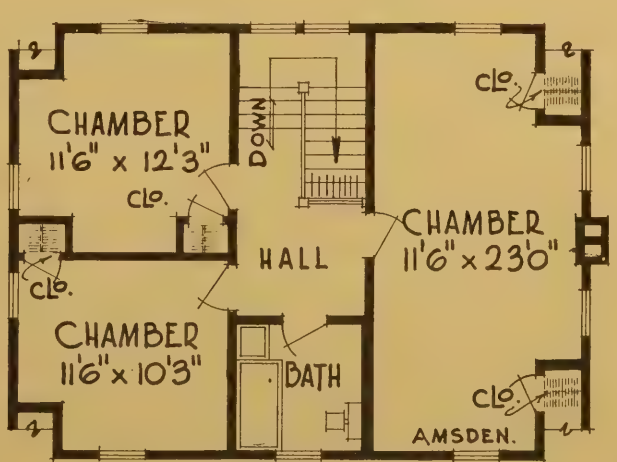
6 Rooms and Bath

"The AMSDEN"

32 Ft. Wide x 24 Ft. Deep

THE combination of shingles, shutters and white trim goes very well in the Dutch Colonial style. The central halls, upstairs and down, gives a balanced distribution of the rooms. Full kitchen equipment and space saving closet devices are included.





SIZES:

Extreme Width	33' 6"
Extreme Depth	37' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

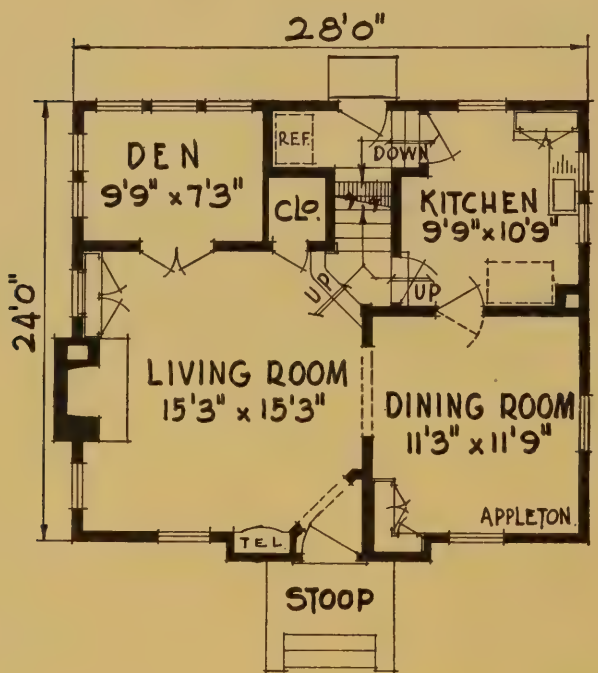


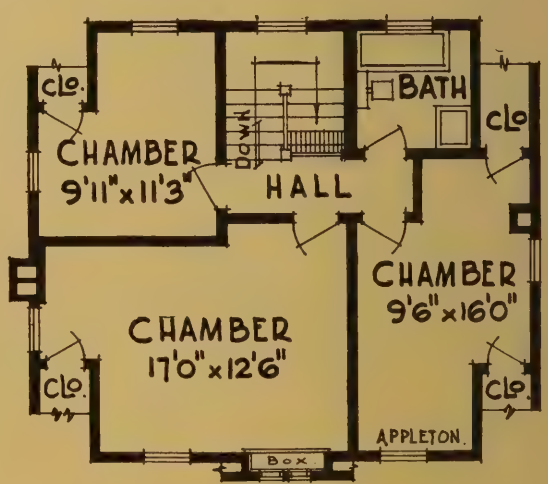
6 Rooms, Bath and Den

"The APPLETON"

28 Ft. Wide x 24 Ft. Deep

IN the Modern Colonial Style. The front gable breaking the roof projection gives the "Appleton" an individual touch. The built-in telephone cabinets and dining cabinets are convenient, and attractive. The simplified stairway provides access from both living room and kitchen.





SIZES:

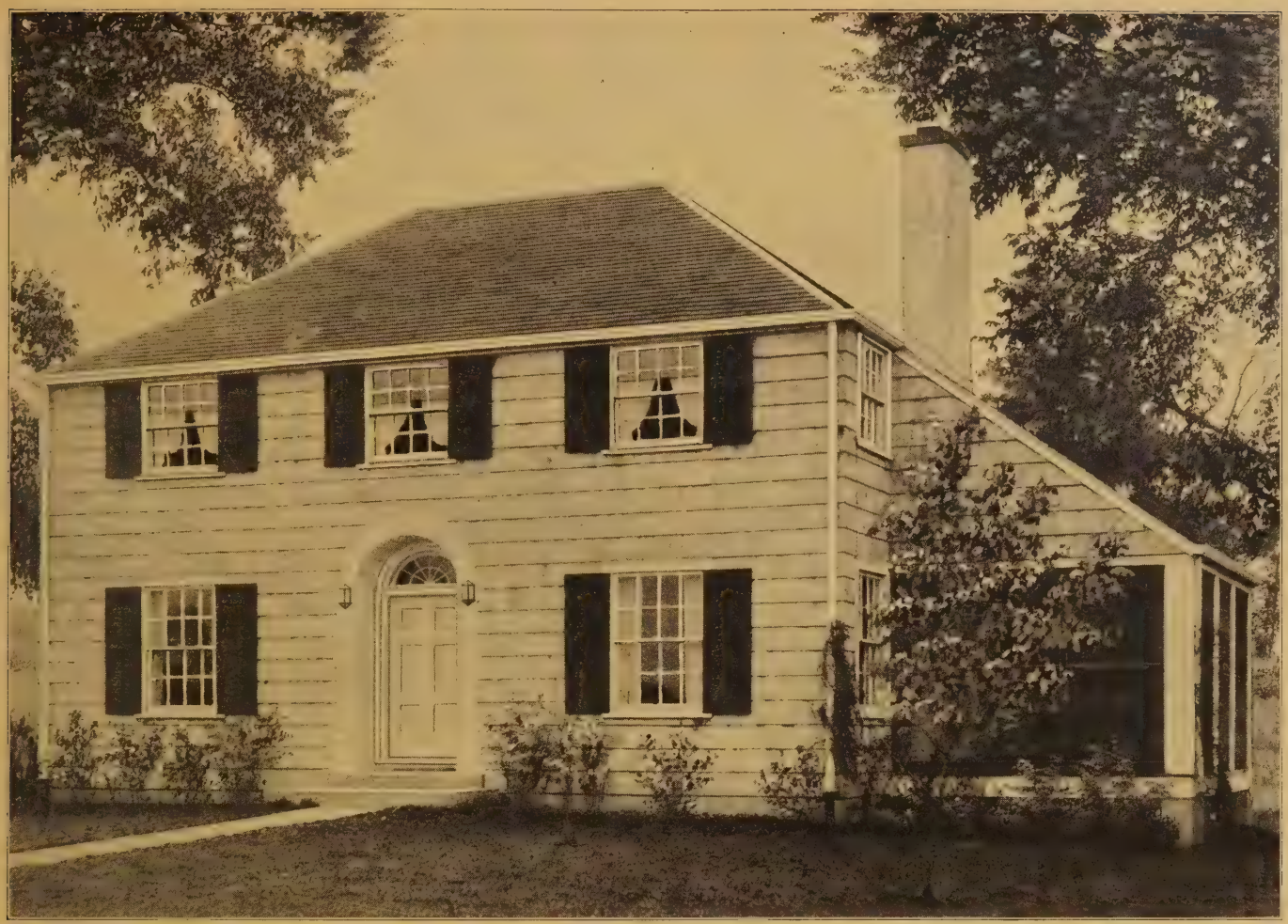
Extreme Width	29' 0"
Extreme Depth	33' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

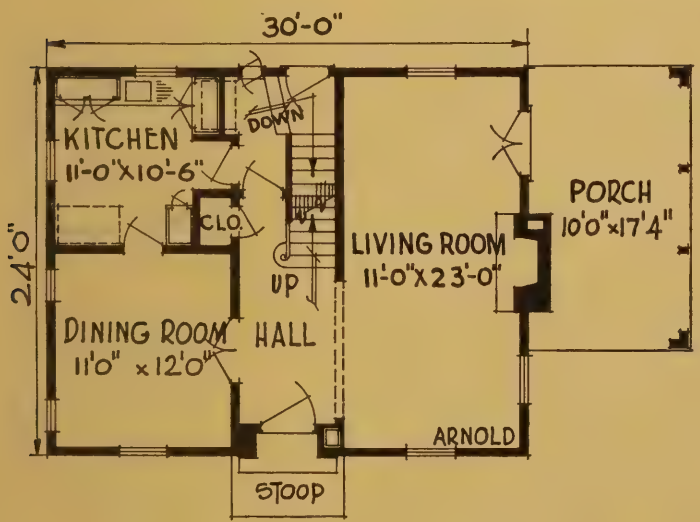
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



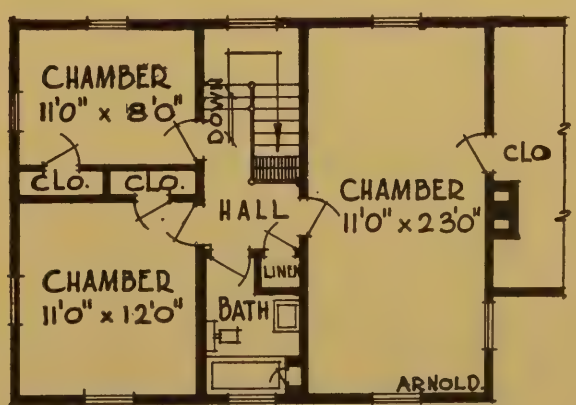
6 Rooms and Bath

"The ARNOLD"

30 Ft. Wide x 24 Ft. Deep



THE "Arnold" is strictly Colonial—entrance, shutters, shingles, and all. The comfortable screen porch is set back just the right distance from the front. Note the spaciousness of the upstairs chambers and closets.



SIZES:

Extreme Width	41′ 6″
Extreme Depth	28′ 9″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

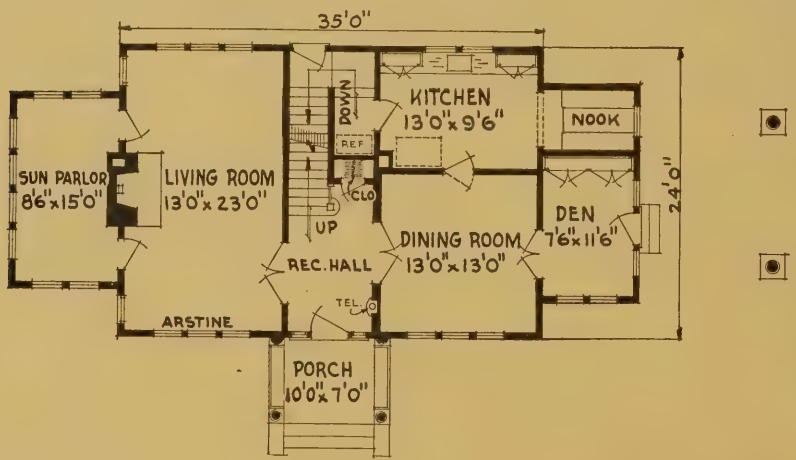


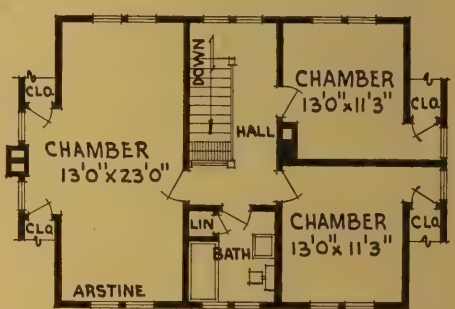
6 Rooms, Bath, Sun Parlor, Den and Dining Nook

"The ARSTINE"

35 Ft. Wide x 24 Ft. Deep

THE "Arstine" embodies the essence of Colonial beauty. Wide siding, colored shutters, overhanging roofs, numerous gables are among the pleasing features here shown. There is a certain rambling effect given by the great width of the "Arstine" that bespeaks peaceful and comfortable living. What the outside suggests the inside fulfills as you will see in studying the floor plan.





SIZES:

Extreme Width	69' 0"
Extreme Depth	36' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

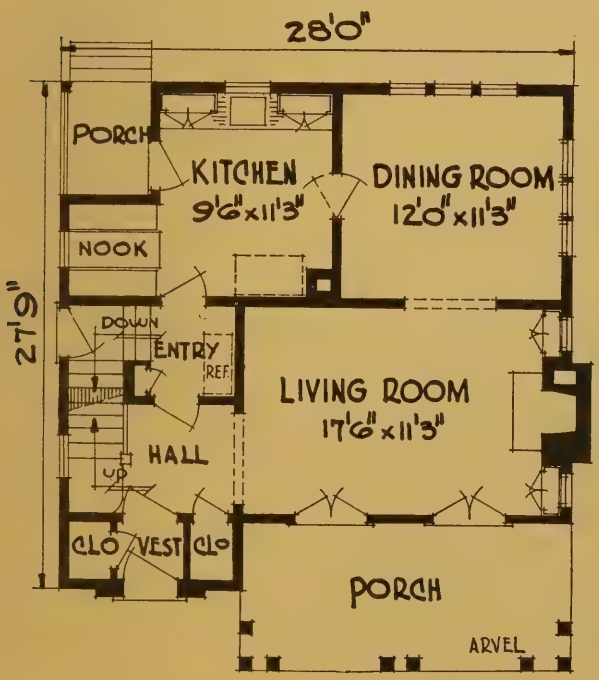


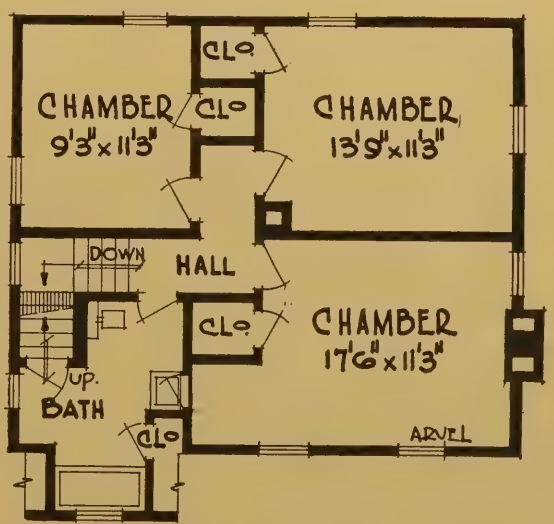
6 Rooms, Bath and Dining Nook

"The ARVEL"

28 Ft. Wide x 27 Ft. 9 in. Deep

THE American Colonial style adapted to suit modern tastes. Placed in the country-side, the "Arvel" makes a pleasing picture. The compact arrangement of the kitchen and the easy access between rooms are delights to the housekeeper.





SIZES:

Extreme Width	30' 0"
Extreme Depth	34' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

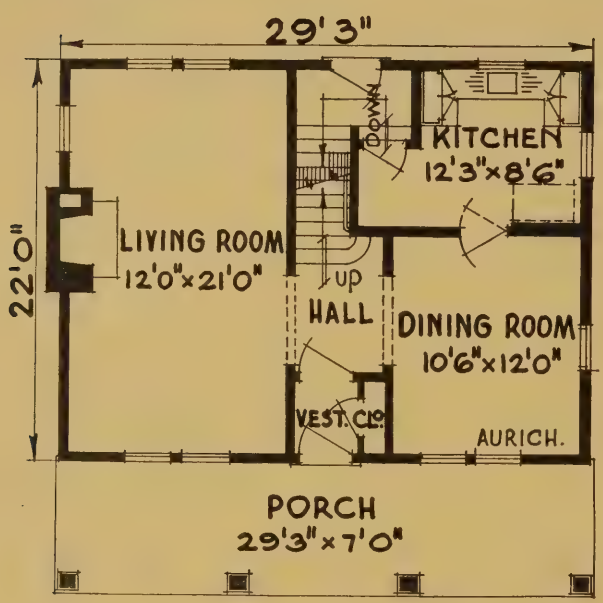
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



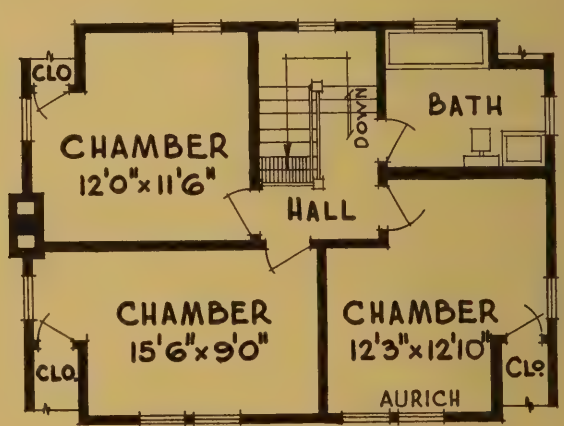
6 Rooms and Bath

"The AURICH"

29 Ft. 3 In. Wide x 22 Ft. Deep



EMBODYING all the beauty of Dutch Colonial architecture. A large porch, an expansive living room with a brick fireplace, lend to the homey atmosphere. The "Aurich" is perfectly executed for those whose taste leans to the Dutch Colonial.



SIZES:

Extreme Width	30′ 6″
Extreme Depth	32′ 6″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

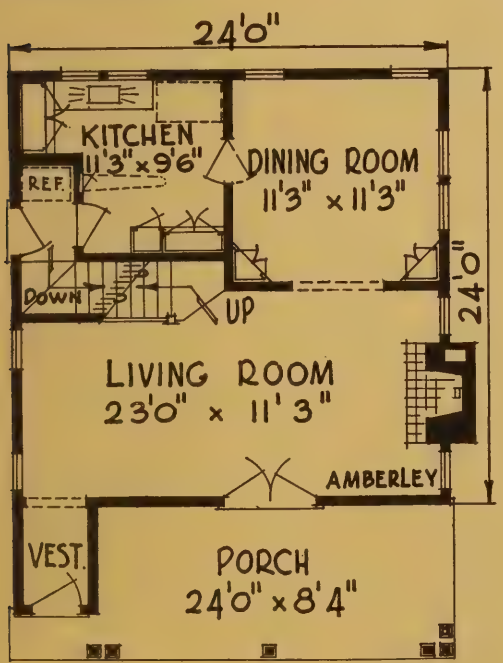


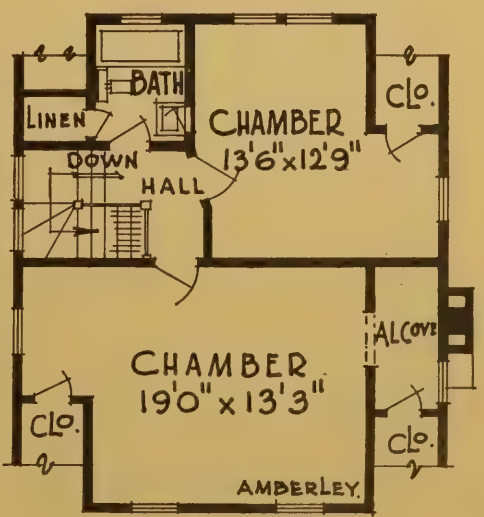
5 Rooms and Bath

"The AMBERLEY"

24 Ft. Wide x 24 Ft. Deep

THE "Amberley" not only proves the practical value of "own your home," but gives the sheer joy of possession. The exterior is pleasing and appropriate while the interior is well arranged to meet practical home comforts. And it is not expensive to build.





SIZES:

Extreme Width	25' 9"
Extreme Depth	33' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

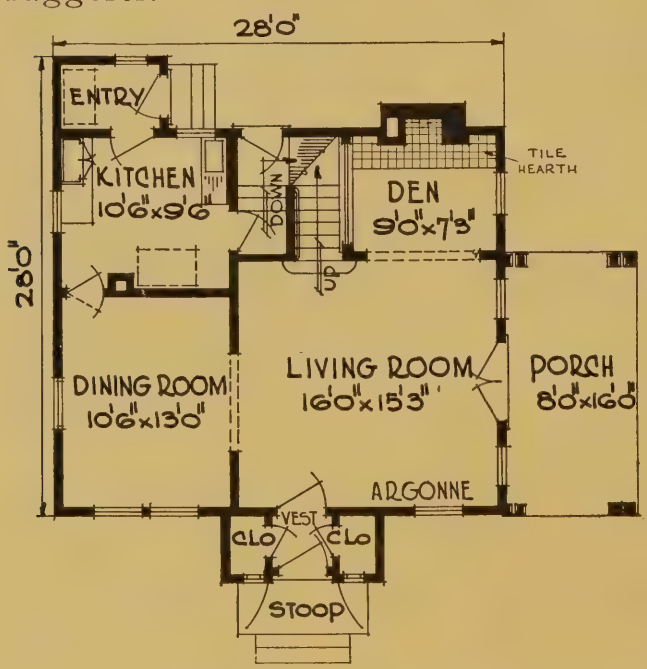


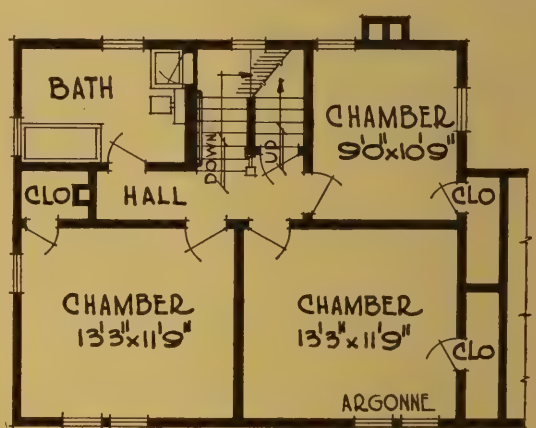
6 Rooms, Bath and Den

"The ARGONNE"

28 Ft. Wide x 24 Ft. Deep

THE "ARGONNE," a pleasant, homey house in shingles. The large open porch adds to its outward attractiveness. Inside, the den with its fireplace, and tile hearth carries out the pleasantness and hominess which the exterior suggests.





SIZES:

Extreme Width	37′ 0″
Extreme Depth	38′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

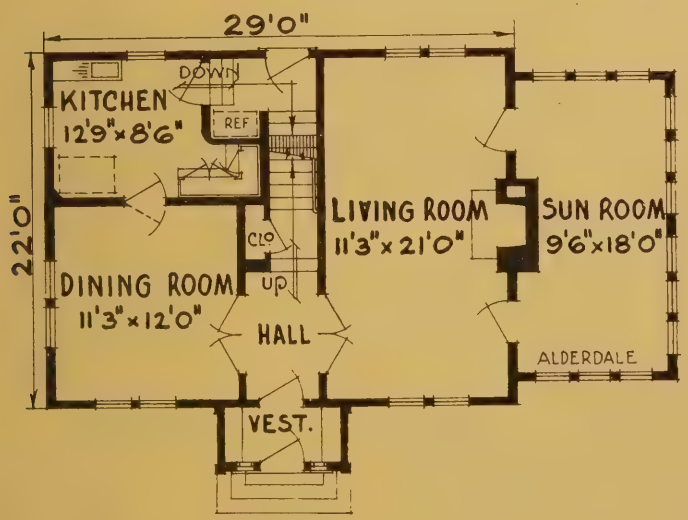
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York



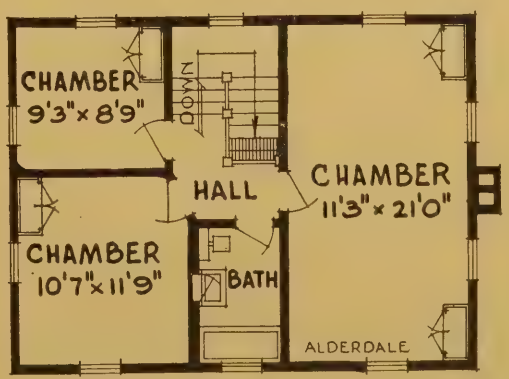
6 Rooms, Bath and Sun Parlor

"The ALDERDALE"

29 Ft. Wide x 22 Ft. Deep



A HOME for the suburb or countryside. The shutters give an adequate amount of color and decoration to the plain lines of the New England Colonial. The sun room is veritably flooded with light.



SIZES:

Extreme Width	41′ 0″
Extreme Depth	28′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

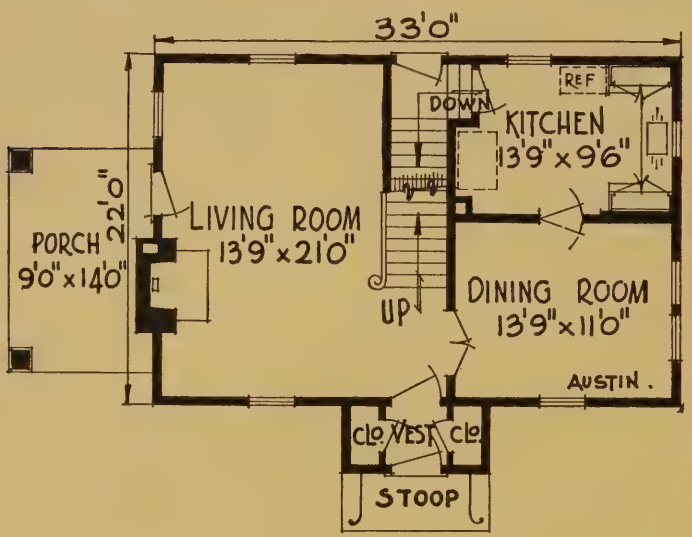
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



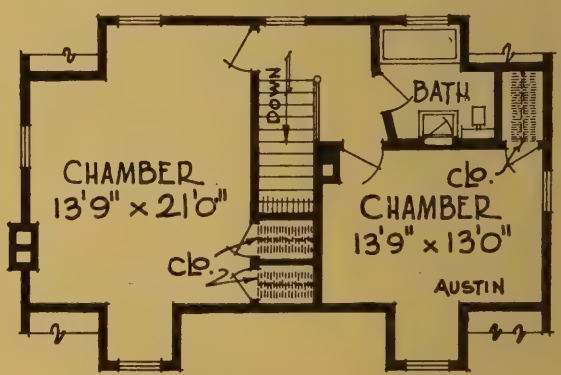
5 Rooms and Bath

"The AUSTIN"

33 Ft. Wide x 22 Ft. Deep



A GORGEOUS home, colorful and interesting. The entrance with its iron railing and shutters is superb. It is a home that satisfies the closest inspection, no detail being out of harmony with the whole. Inside you will be equally delighted. The floor plan gives the excellent arrangement and if you will visualize you will see its great charm.



SIZES:

Extreme Width	42' 6"
Extreme Depth	31' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

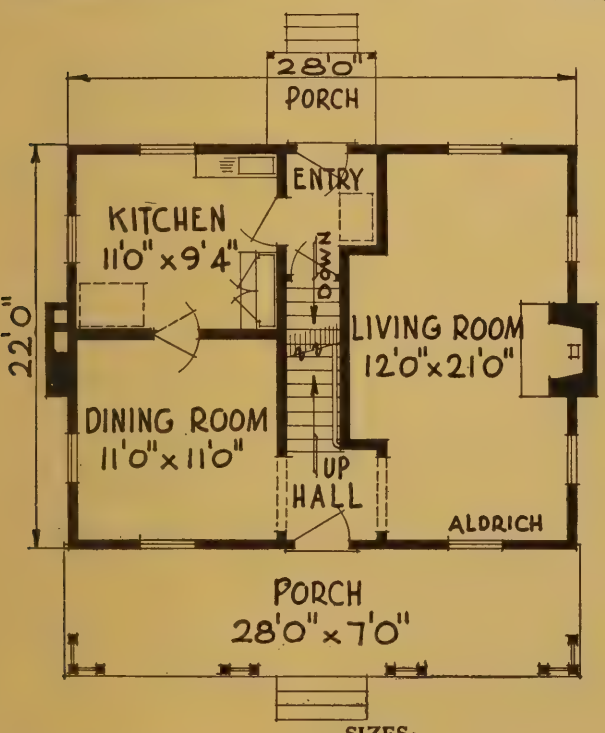
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



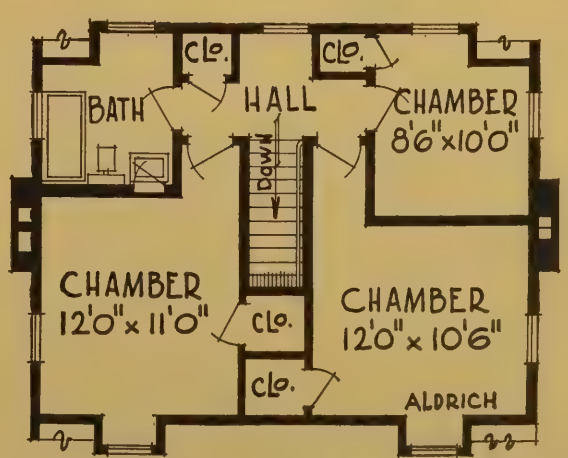
6 Rooms and Bath

"The ALDRICH"

28 Ft. Wide x 22 Ft. Deep



A MODERNIZED Dutch colonial home. The exterior with the shuttered windows, exposed chimney and roomy porch are typical features of this style home. The interior designed for congenial comfort contains six large rooms with many utilities.



SIZES:

Extreme Width	30' 6"
Extreme Depth	39' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

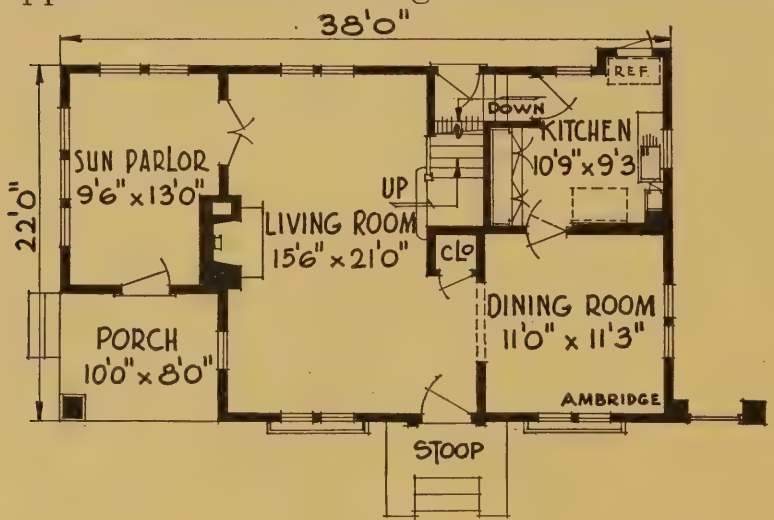


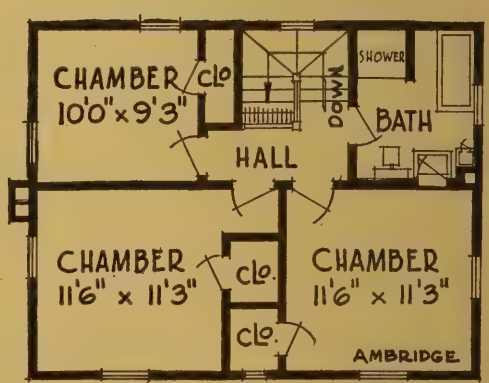
6 Rooms, Bath and Sun Parlor

"The AMBRIDGE"

28 Ft. Wide x 22 Ft. Deep

A HOME of distinction revealing the character and taste of the owner. Little touches such as the gate, at the side and the iron railing account for its great appeal. The same thoughtfulness is demonstrated on the inside in the clothes chute, outside refrigerator door and the coat closet off the living room.





SIZES:

Extreme Width	46' 6"
Extreme Depth	30' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

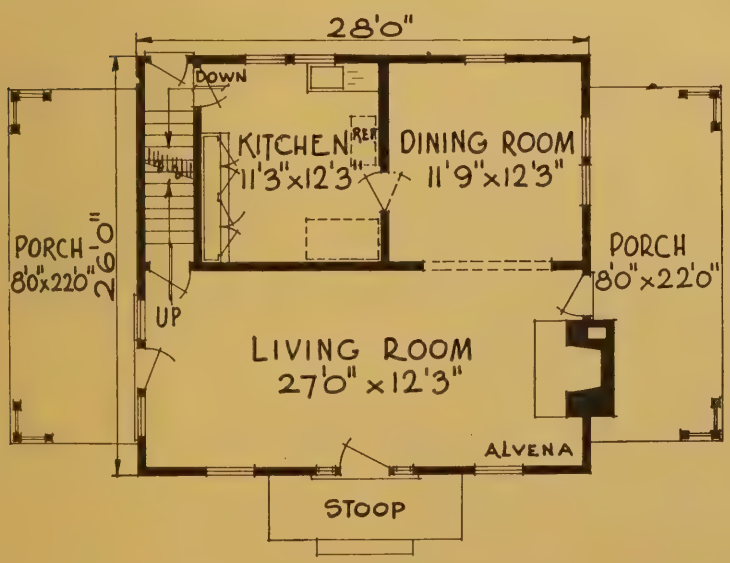


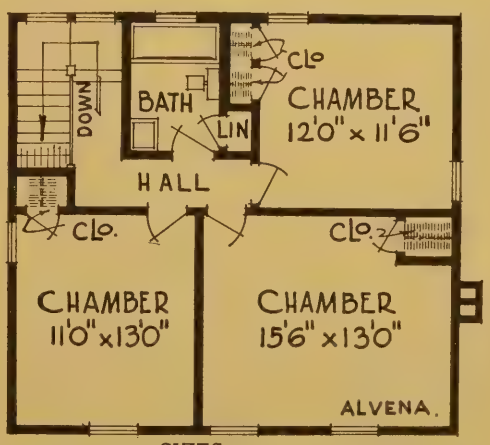
6 Rooms and Bath

"The ALVENA"

28 Ft. Wide x 26 Ft. Deep

A HOME of quiet beauty, provocative of the virtues of domestic life. White siding, green shutters and a red chimney never fails to please the eye. By placing the living room across the front, the architect has obtained a delightful sweep. Space saving closets with adjustable clothes hangers have been used.





SIZES:

Extreme Width	51' 6"
Extreme Depth	33' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

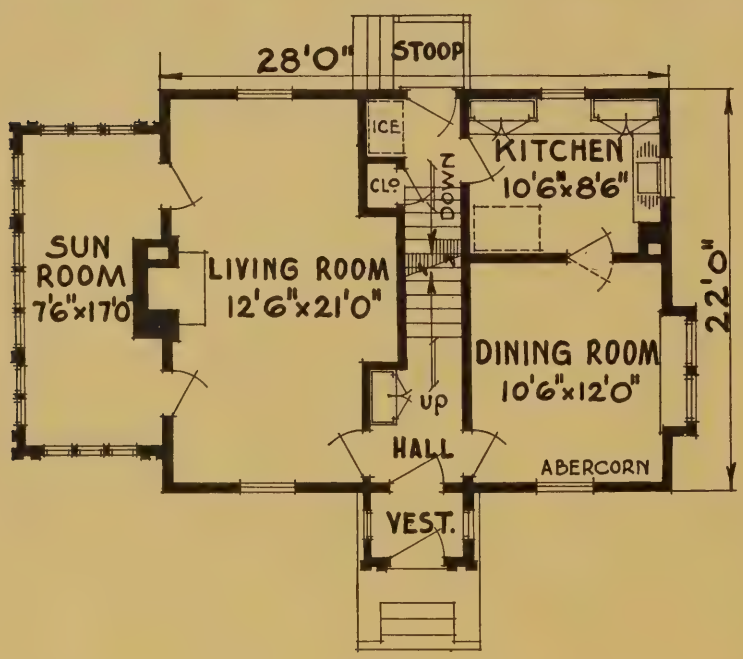
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



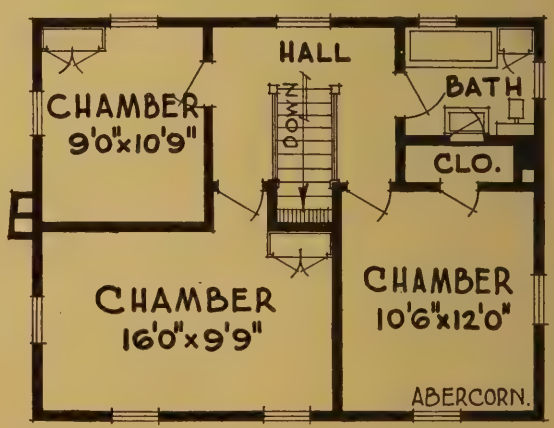
6 Rooms, Bath and Sun Parlor

"The ABERCORN"

28 Ft. Wide x 22 Ft. Deep



THE "ABERCORN" combines the charm of old colonial homes with modern comforts. The sun room, while a modern innovation fits into the architectural scheme perfectly. The kitchen with built-in cupboards lightens the daily routine of the housewife.



SIZES:

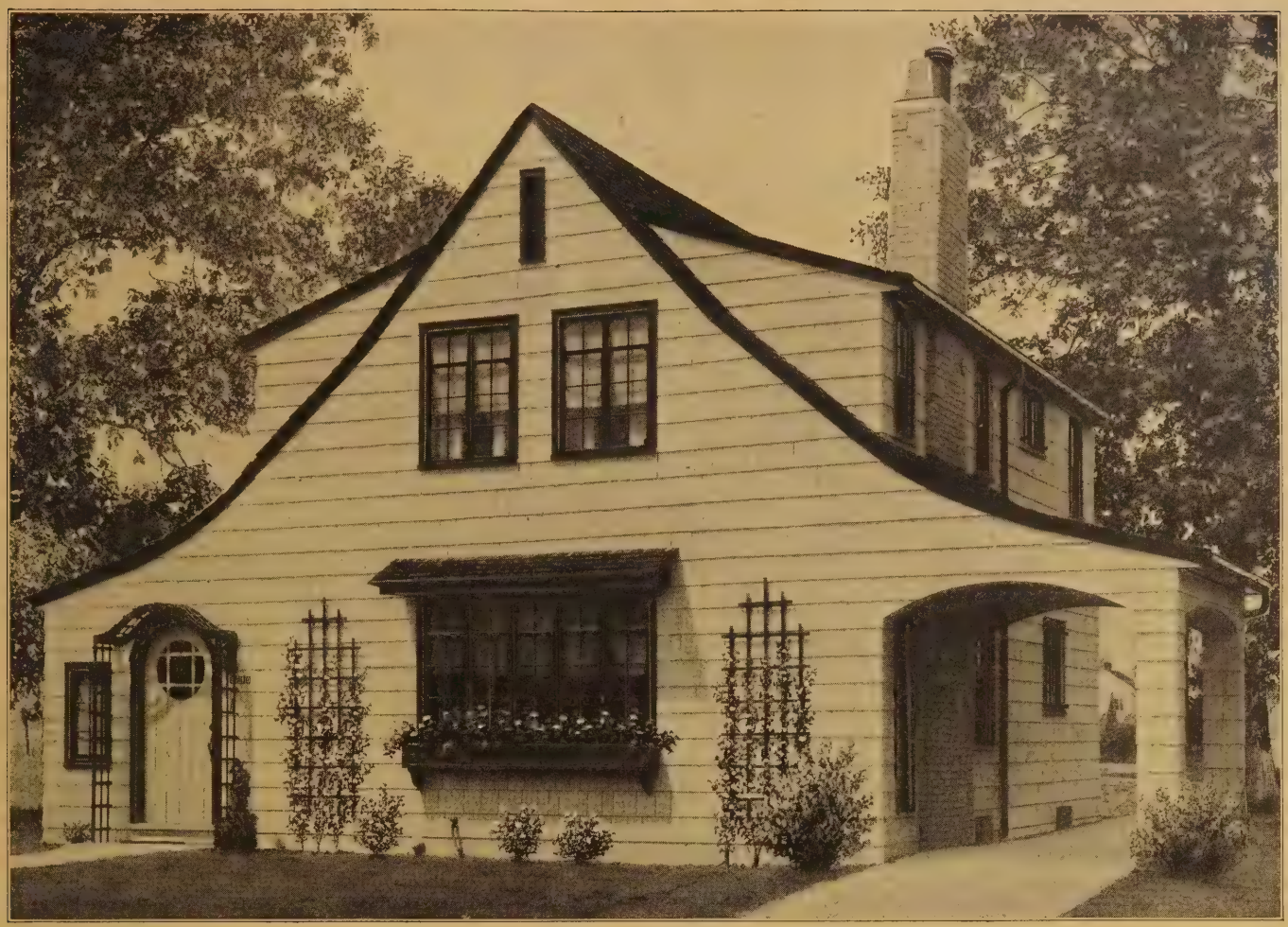
Extreme Width	39' 0"
Extreme Depth	31' 4"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

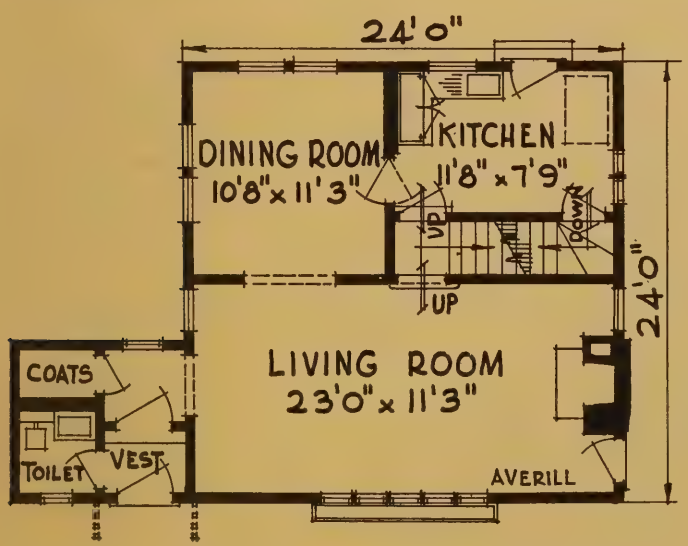
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



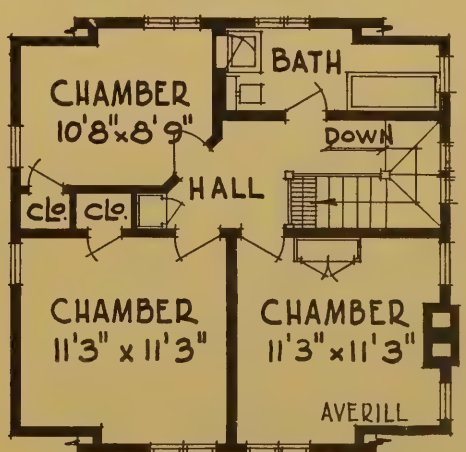
6 Rooms, Bath and Toilet

"The AVERILL"

24 Ft. Wide x 24 Ft. Deep



NEAT, unique and attractive are the adjectives to describe the "Averill." The broad front curve of the roof is carried out over a Porte-Cochere on the right, showing architectural ingenuity. Steel sash provide the finishing touch to a fetching home.



SIZES:

Extreme Width	45' 4"
Extreme Depth	26' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

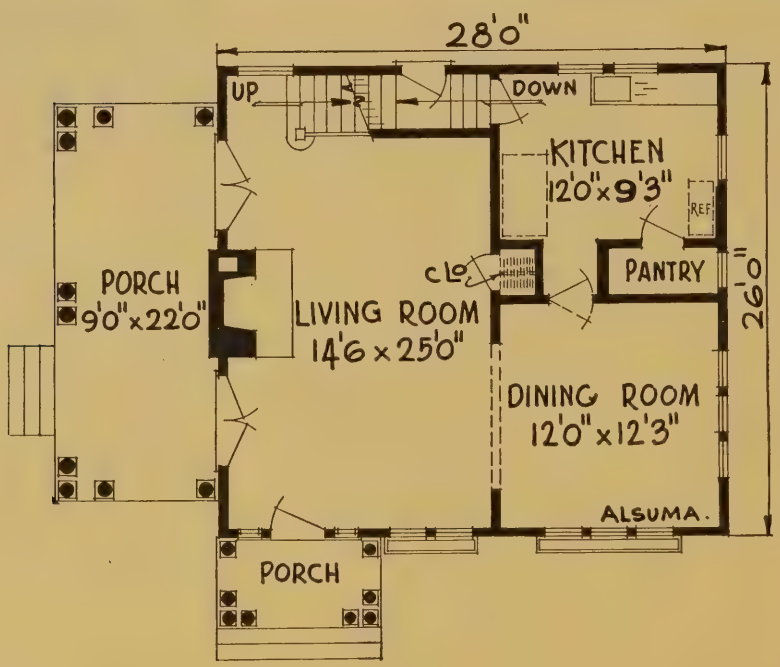
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



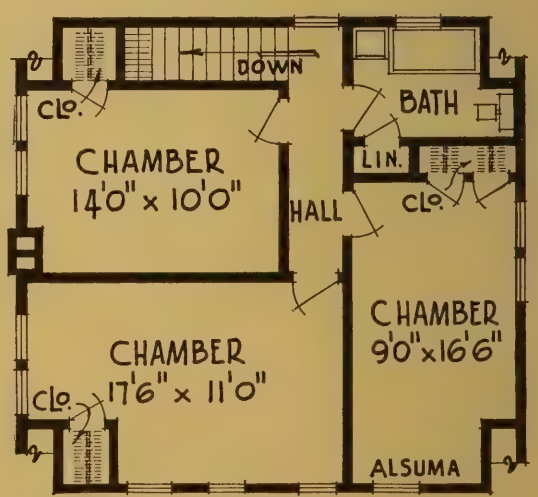
6 Rooms and Bath

"The ALSUMA"

28 Ft. Wide x 26 Ft. Deep



SUITABLE for the needs of the small family. The taste evident on the outside is carried inside in the arrangement of the rooms. The living room is expansive and further enhanced by the big fireplace and open stairway.



SIZES:

Extreme Width	41' 0"
Extreme Depth	34' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

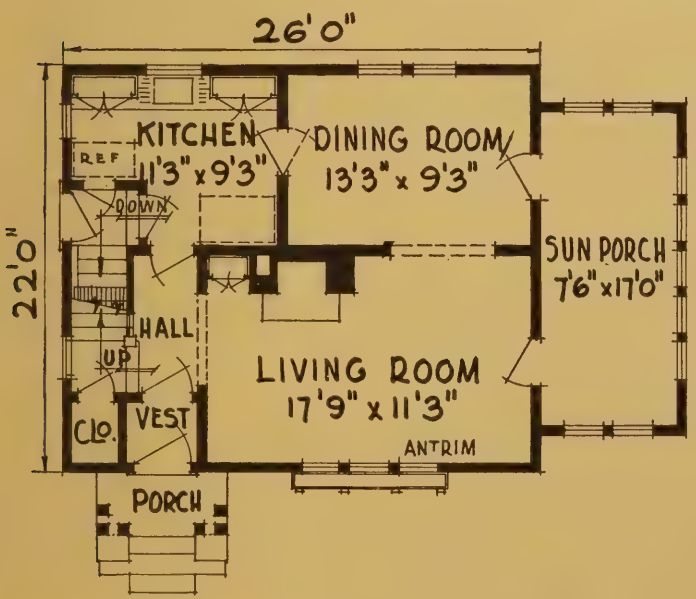
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



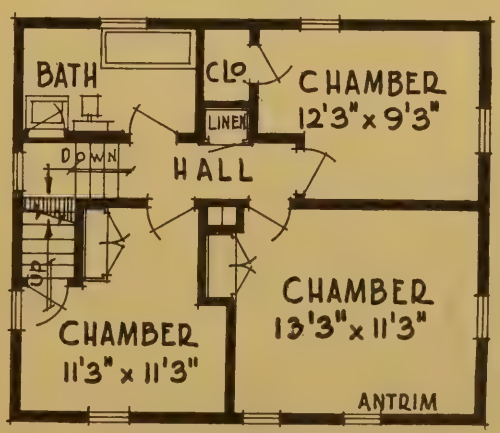
6 Rooms, Bath and Sun Porch

"The ANTRIM"

26 Ft. Wide x 22 Ft. Deep



A POPULAR Colonial Home designed to meet the requirements of the average family. One cannot help but be impressed with the excellence of the interior arrangement.



SIZES:

Extreme Width	32′ 0″
Extreme Depth	30′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) Set of **Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

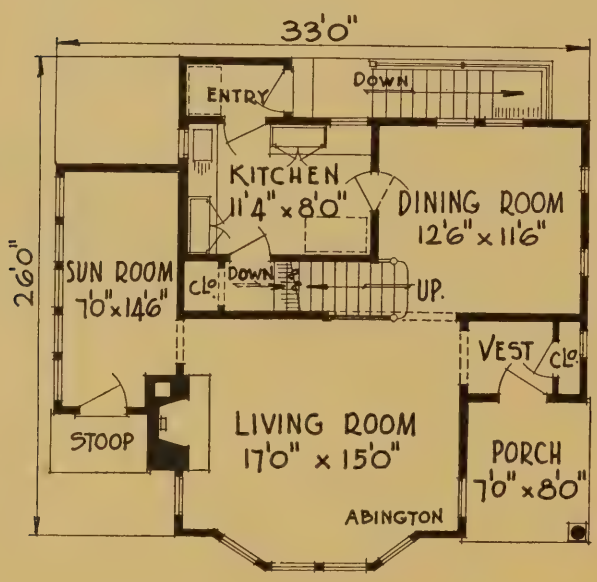


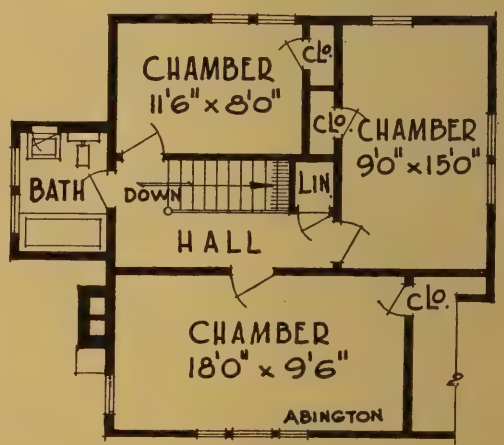
6 Rooms, Bath and Sun Room

"The ABINGTON"

33 Ft. Wide x 26 Ft. Deep

FROM the moment you step in the recessed porch you are in an atmosphere of hospitality. The living room with its bay, its fireplace and plaster arch is a room of infinite delight. Then there is the unusually large sun room, and ample closet space which is always appreciated by good housekeepers.





SIZES:

Extreme Width	36' 6"
Extreme Depth	32' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms
$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

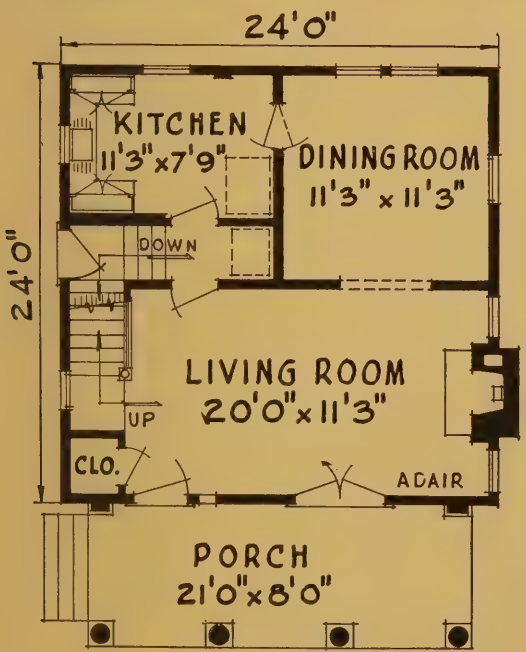
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



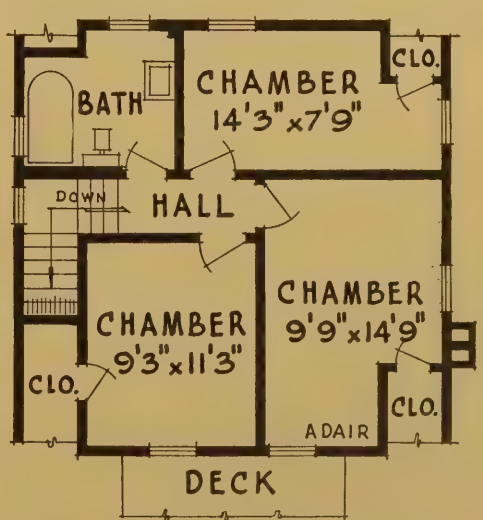
6 Rooms and Bath

"The ADAIR"

24 Ft. Wide x 24 Ft. Deep



STAINED shingle sides set off with appropriate trim and second floor shutters make an irresistable picture. The colonial columns of the porch and high brick chimney are very effective. The kitchen is equipped with built-in utility cabinets to make easier work. The upstairs is worthy of careful consideration.



SIZES:

Extreme Width	26' 0"
Extreme Depth	34' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

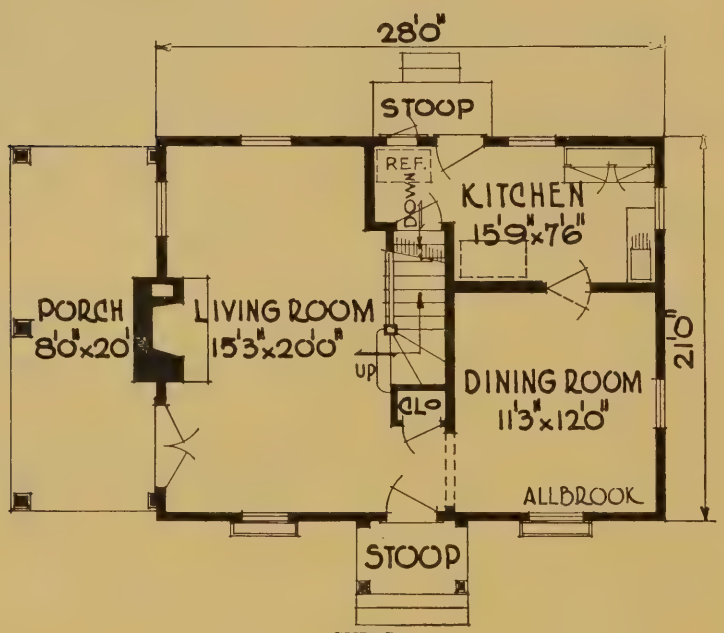
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

"The ALLBROOK"

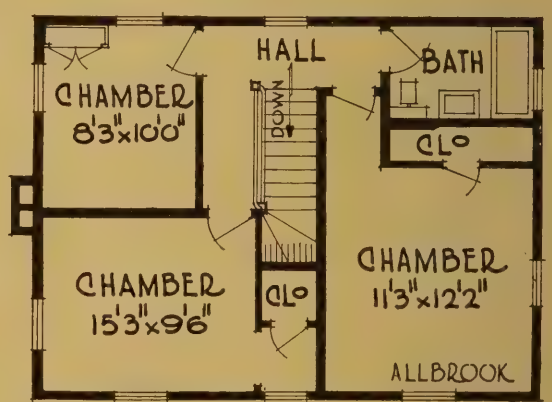
28 Ft. Wide x 21 Ft. Deep



SIZES:

Extreme Width	38′ 9″
Extreme Depth	31′ 6″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

WIDE siding, open porch and shutters are pleasingly combined in the "Allbrook." One enters directly into the spacious living room. An abundance of room is found in the chambers and closets.



Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

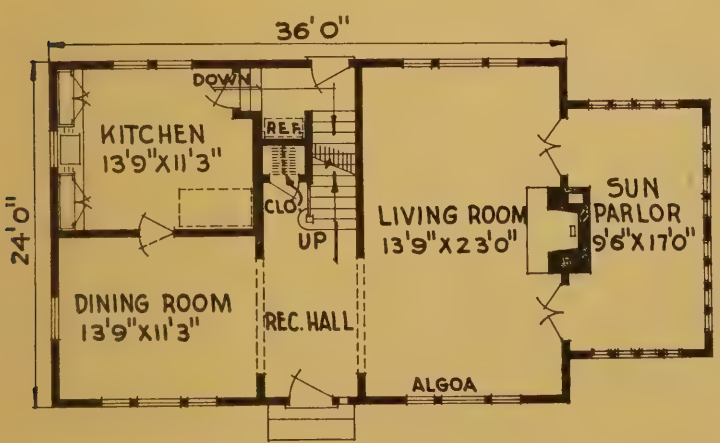


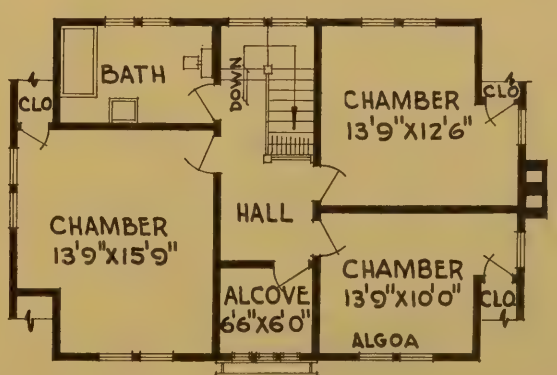
6 Rooms, Bath and Sun Parlor

"The ALGOA"

36 Ft. Wide x 24 Ft. Deep

GOOD to look at and pleasant to live in are the outstanding qualities of the "Algoa." The effect of the living room, adjoining sun parlor and fireplace between is smart and satisfying. Many specialities, such as kitchen cabinets, a built-in mail box and space saving fixtures are things to be considered.





SIZES:

Extreme Width	50' 6"
Extreme Depth	29' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

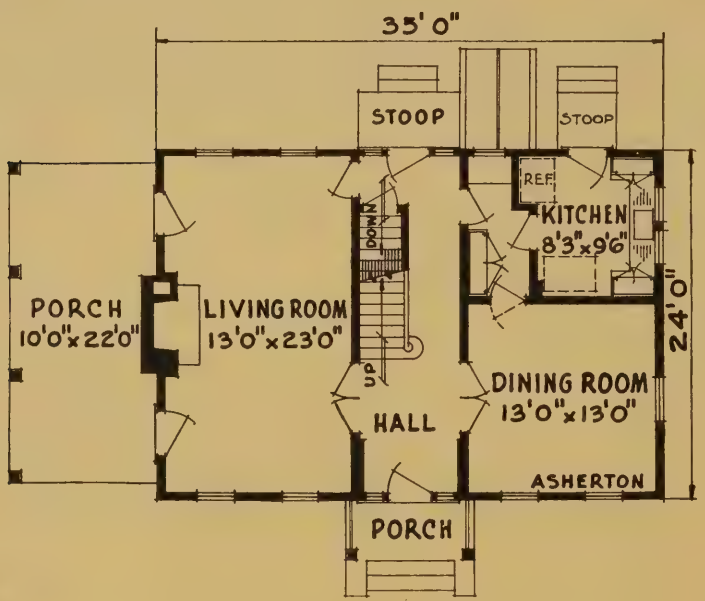
HOME BUILDERS CATALOG CO
Chicago.—Rochester.—Detroit.—New York.



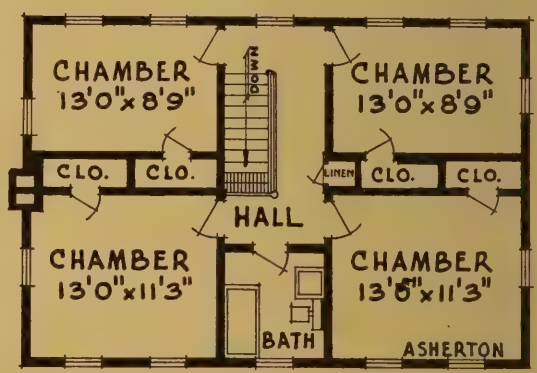
7 Rooms and Bath

"The ASHERTON"

35 Ft. Wide x 24 Ft. Deep



A GREEN shuttered home breathing the peace and luxury of the country-side. A large porch, living room and hall, feature the downstairs. Upstairs the chambers are dispatched in a neat, convenient way. Plenty of windows, but can a home have too many windows?



SIZES:

Extreme Width	47' 0"
Extreme Depth	37' 8"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

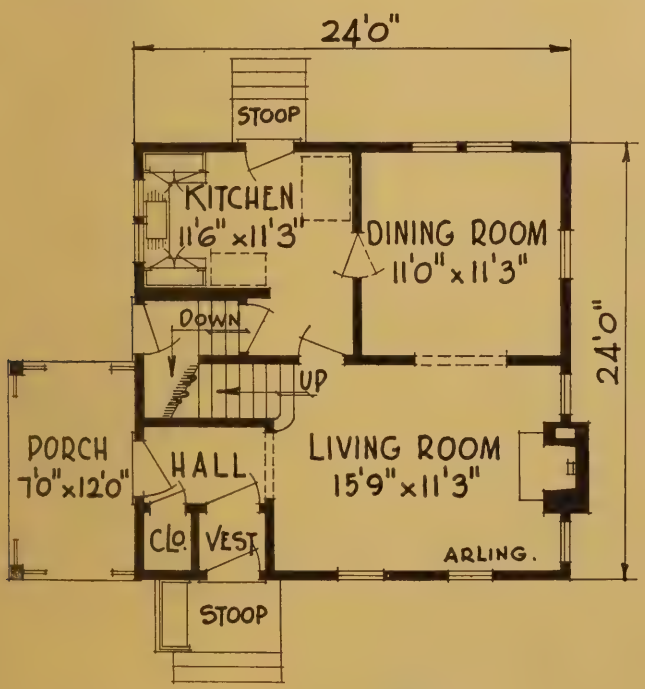
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



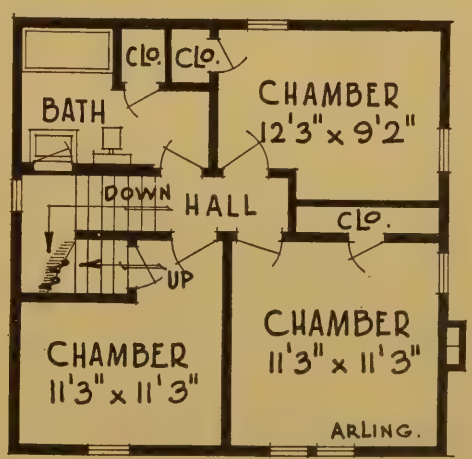
6 Rooms and Bath

"The ARLING"

24 Ft. Wide x 24 Ft. Deep



A FRAME home of the conventional type. The roofed entrance with built-in seat is especially attractive. The rooms are of ample size and well arranged. There is an attic for storage.



SIZES:

Extreme Width	33' 6"
Extreme Depth	34' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

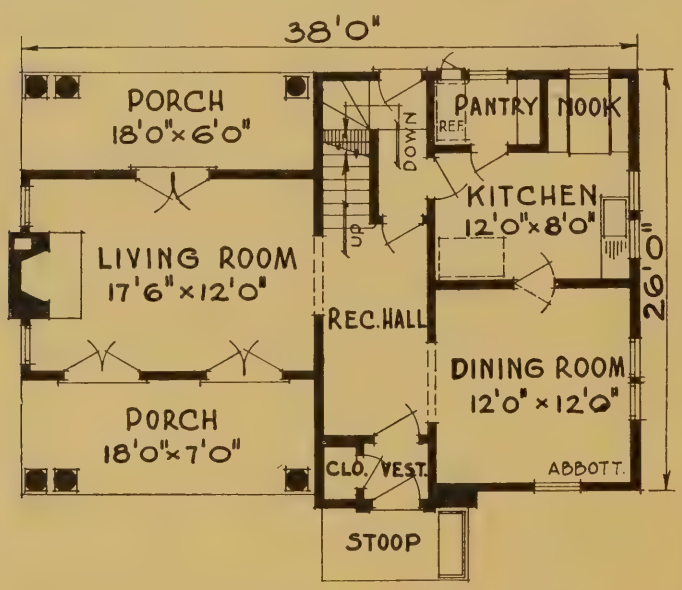


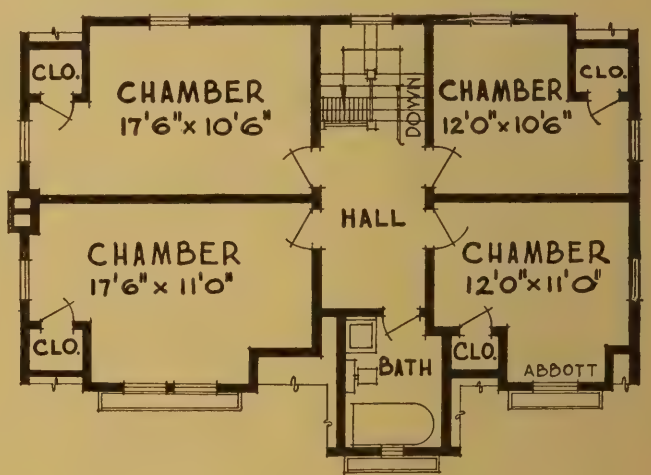
7 Rooms, Bath and Nook

"The ABBOTT"

38 Ft. Wide x 26 Ft. Deep

AN INTRIGUING home resplendent in its clean beauty. The large living room flanked by two pillared porches is original and pleasing. Four chambers upstairs provide ample guest room. This design offers all the modern conveniences so necessary to the discriminating housekeeper.





SIZES:

Extreme Width	39′ 6″
Extreme Depth	32′ 6″
First Floor Ceiling	9′ 0″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

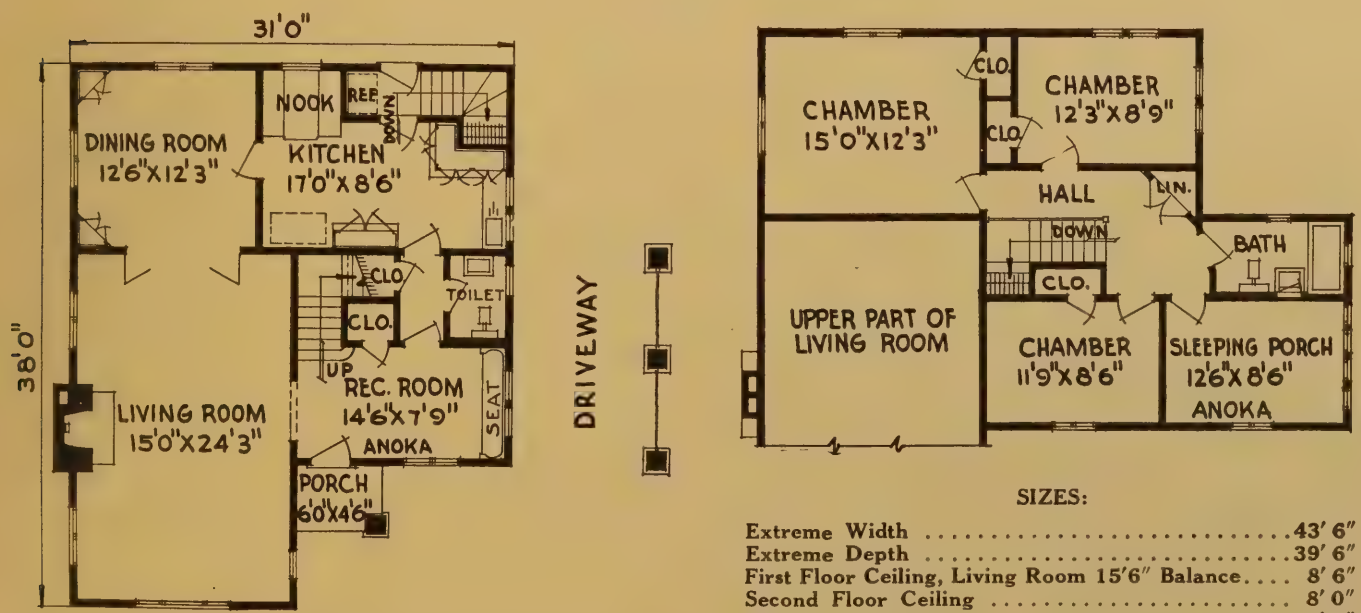


6 Rooms, Bath, Nook, Sleeping Porch and Toilet

"The ANOKA"

31 Ft. Wide x 38 Ft. Deep

AN air of rusticity combined with a beauty of color and line makes the "Anoka" a unique and effective home. A thatched roof is always fetching and when used with shingled sides is particularly so. The floor plan reveals the excellence of arrangement and many features included.



SIZES:

Extreme Width	43' 6"
Extreme Depth	39' 6"
First Floor Ceiling, Living Room 15'6" Balance	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

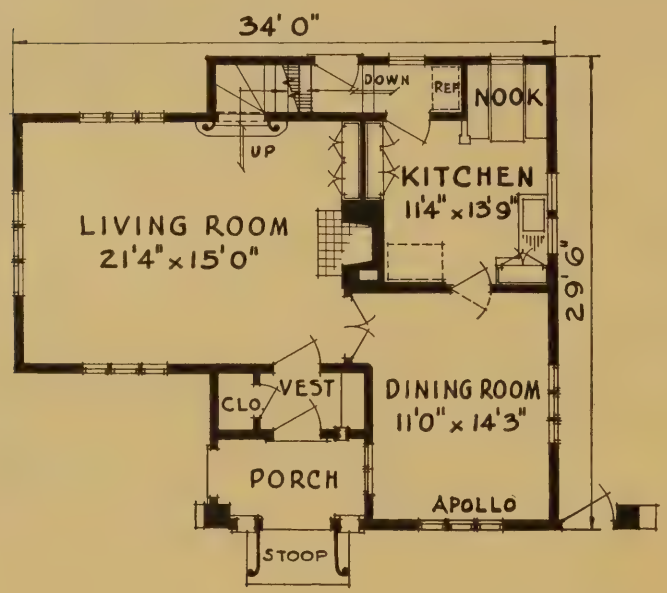
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



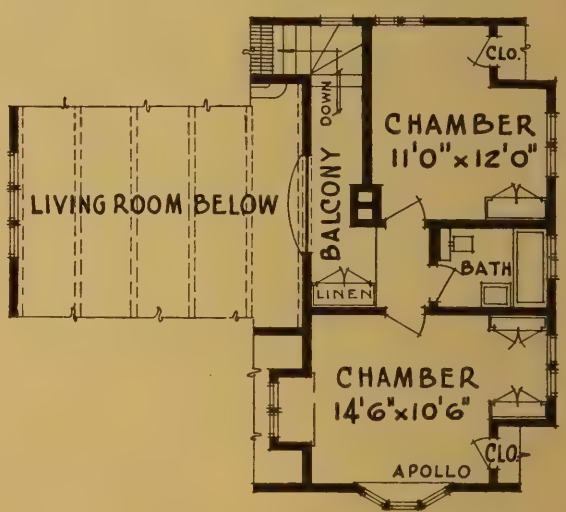
5 Rooms, Bath and Nook

"The APOLLO"

34 Ft. Wide x 29 Ft. 6 In. Deep



THE "APOLLO" demonstrates the fascinating possibilities of shingle exteriors. The two story living room with exposed beams in ceiling, fireplace, flanked with book-cases, and balcony with iron rail is the last word in living room luxuriousness. Steel sash, and built-in mail box are among the other modern conveniences.



SIZES:

Extreme Width	41' 0"
Extreme Depth	33' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items .....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms** .....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

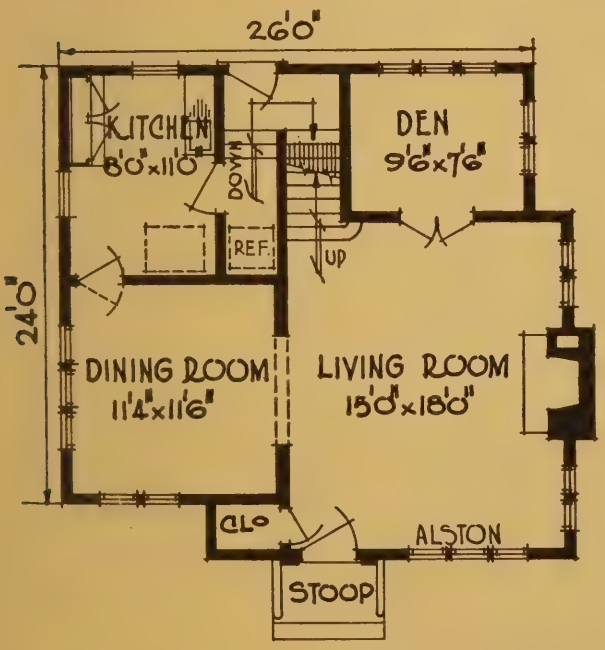
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



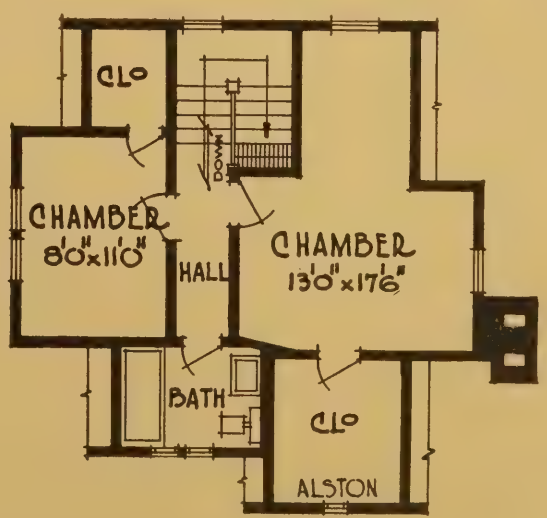
5 Rooms, Bath and Den

"The ALSTON"

26 Ft. Wide x 24 Ft. Deep



TASTY in every detail, the "Alston" is the perfect suburban home. A convenient arrangement of rooms and careful attention to details make this home extremely livable. The front entrance opens directly into the grand living room. Attention should be called to the size of the upstairs closets.



SIZES:

Extreme Width	29' 9"
Extreme Depth	32' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

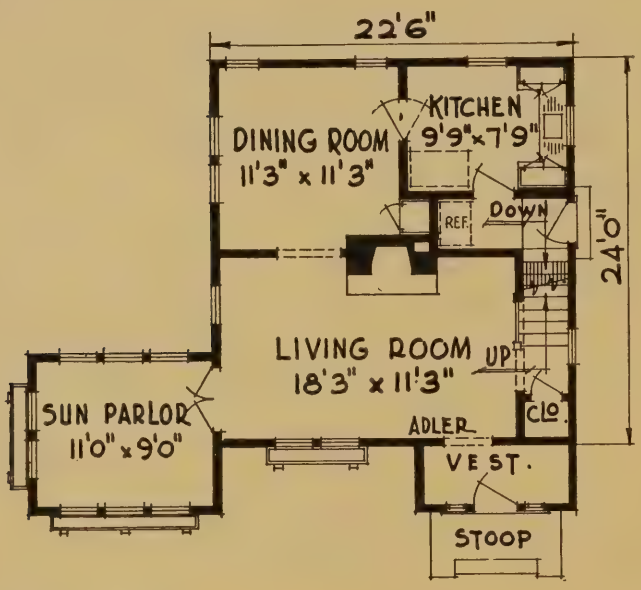
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



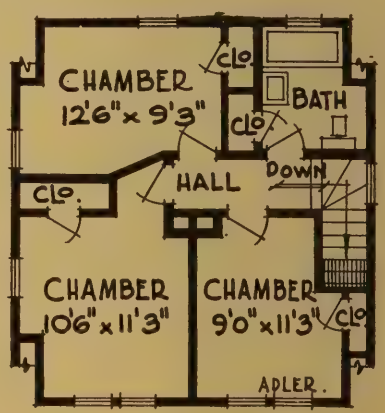
6 Rooms, Bath and Sun Parlor

"The ADLER"

22 Ft. 6 in. Wide x 24 Ft. Deep



STRIKING in appearance, delightful to live in are the impressions created by the "Adler." The builder cannot help but retain the shutters and flower boxes. The large living room with fire place and the adjoining sun parlor is an ideal arrangement for home comfort and modern convenience.



SIZES:

Extreme Width	36' 6"
Extreme Depth	33' 9"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

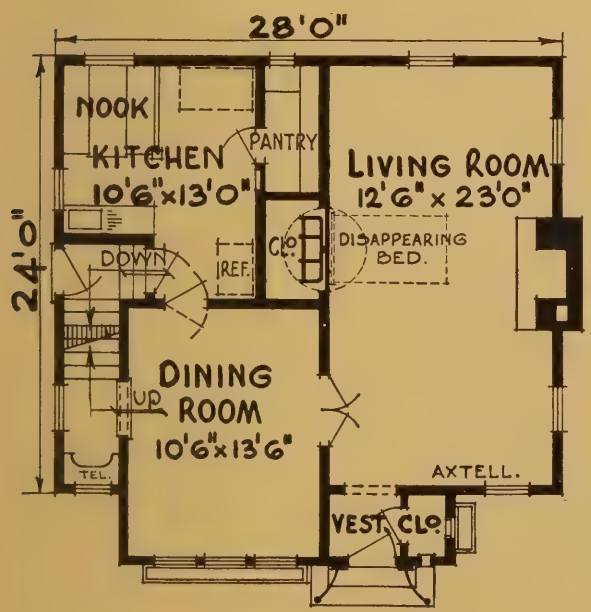
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



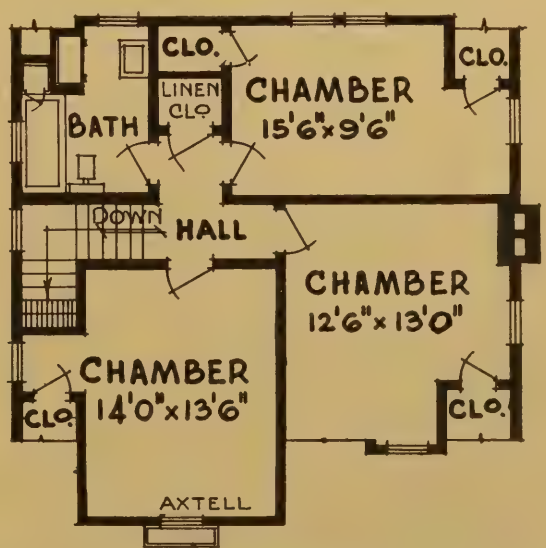
6 Rooms, Bath and Dining Nook

"The AXTELL"

28 Ft. Wide x 28 Ft. Deep



A FRAME home of unusual beauty. The enticing entrance opens into a small vestibule, thence into a magnificent living room. A disappearing bed in the living room is featured, adding comfort and space economy.



SIZES:

Extreme Width	32' 0"
Extreme Depth	32' 3"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

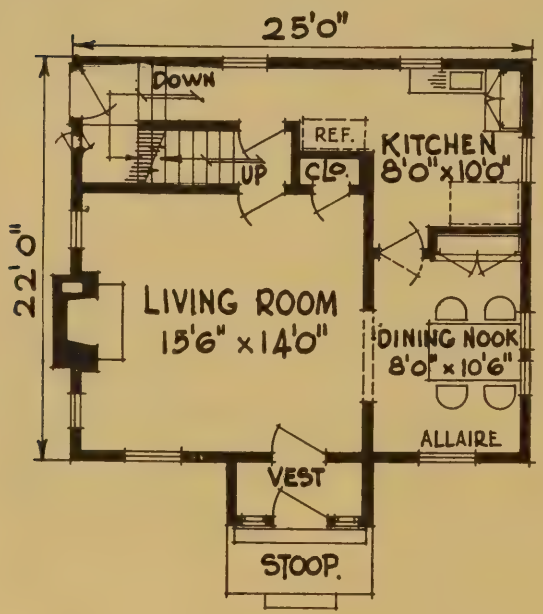
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

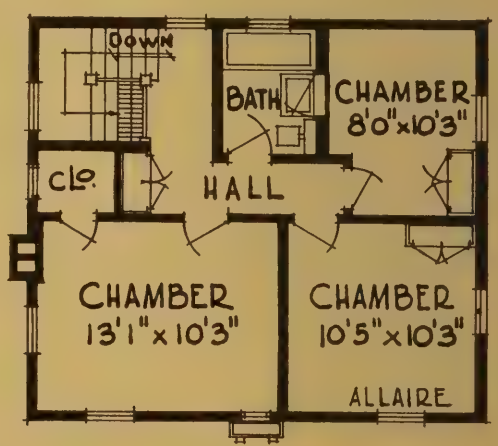
"The ALLAIRE"

25 Ft. Wide x 22 Ft. Deep



THE colonial entrance with balcony above and the shuttered windows all combine to give "THE ALLAIRE" a very attractive exterior.

The large living room with fireplace, attractive well lighted dining nook and three chambers are the result of careful study to produce a small comfortable home at a moderate price.



SIZES:

Extreme Width	27′ 0″
Extreme Depth	31′ 6″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

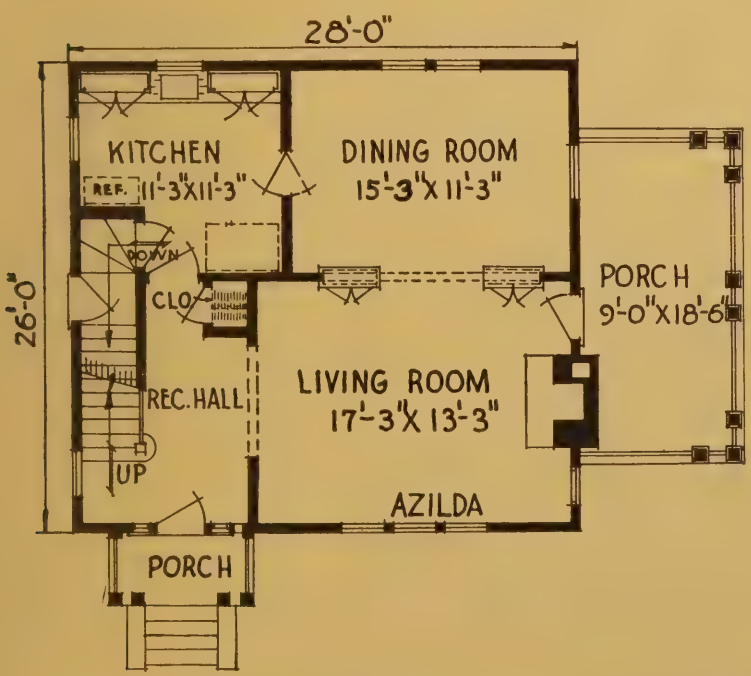


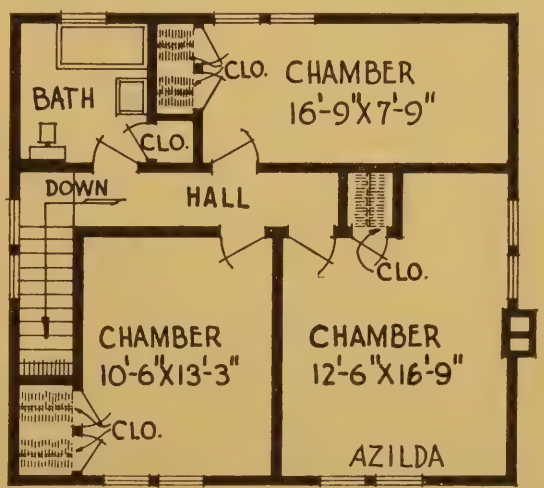
6 Rooms and Bath

"The AZILDA"

28 Ft. Wide x 26 Ft. Deep

NOT only does the "Azilda" please the eye, but it satisfies those seeking comfortable living at a moderate cost. The reception hall is a feature to be considered as is the big breezy porch on the side. The closets are equipped with space saving closet fixtures. An impressive plaster arch marks the opening between the dining and living rooms.





SIZES:

Extreme Width	40' 0"
Extreme Depth	35' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

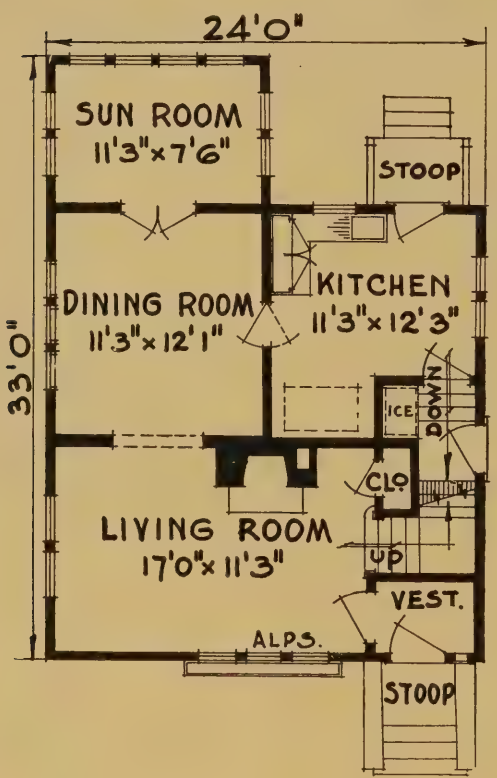
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Sun Room

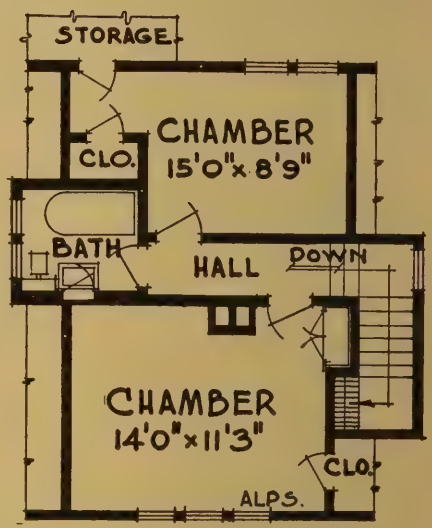
"The ALPS"

24 Ft. Wide x 25 Ft. Deep



UNUSUALLY appealing in appearance, the "ALPS" at once catches the eye.

The sun room, living room with fire place and the kitchen with built in cabinets make a very compact interior arrangement which any housekeeper will appreciate.



SIZES:

Extreme Width	27′ 0″
Extreme Depth	40′ 6″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

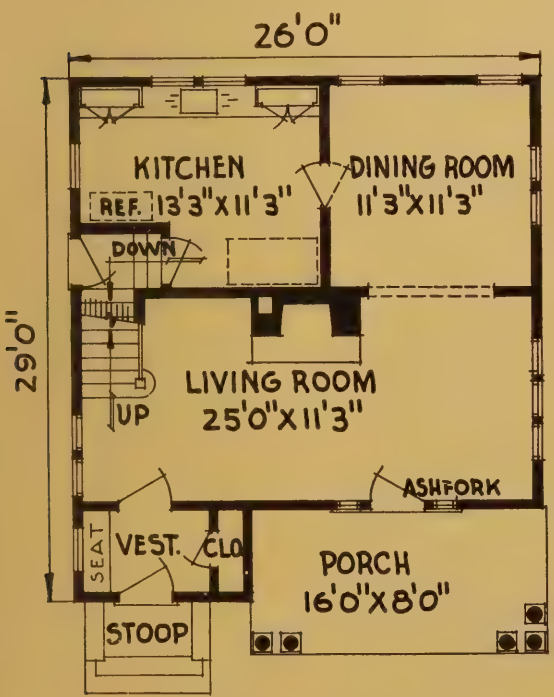


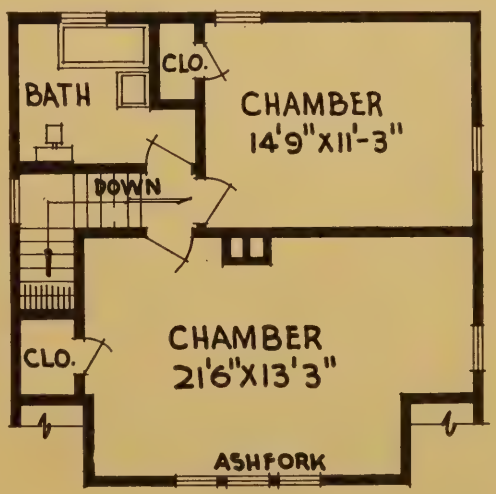
5 Rooms and Bath

"The ASHFORK"

26 Ft. Wide x 29 Ft. Deep

JUST wherein the charm of the "Ashfork" exists is not hard to discover. One glance at the unique entrance, the cool receding porch and the long slope of the roof suffices to hold and please the eye. And as you wander from one room to another inside you find delight at every turn.





SIZES:

Extreme Width	29' 0"
Extreme Depth	35' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

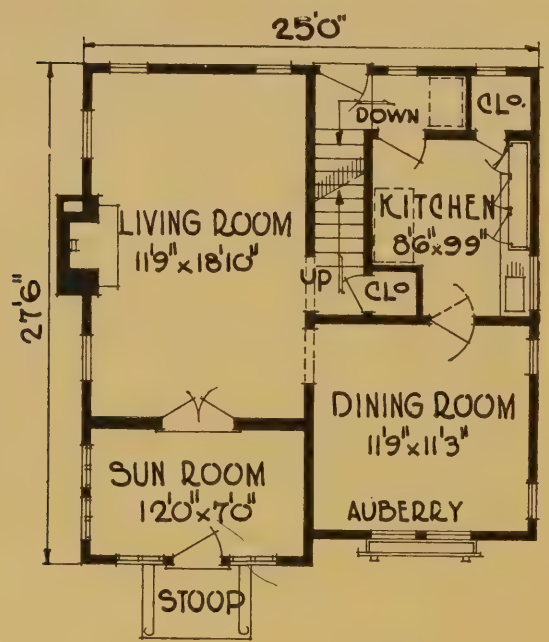
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



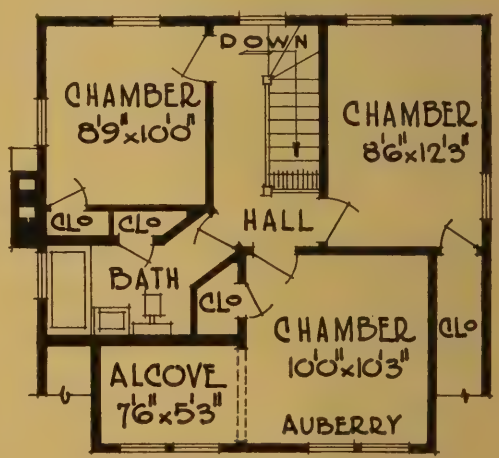
6 Rooms, Bath, Sun Room and Alcove

"The AUBERRY"

25 Ft. Wide x 27 Ft. 6 In. Deep



NEAT, compact and cozy are the attributes of the "Auberry." The entrance with its iron railing is unique and the shingled walls give it a beautiful and rustic appearance. Three large chambers with ample closet space and the downstairs rooms with modern conveniences will make a comfortable home for a medium-sized family.



SIZES:

Extreme Width	27' 0"
Extreme Depth	32' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

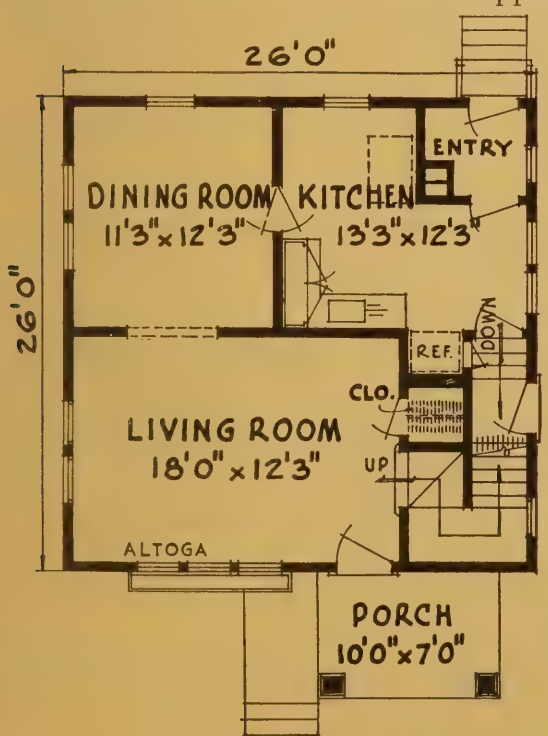


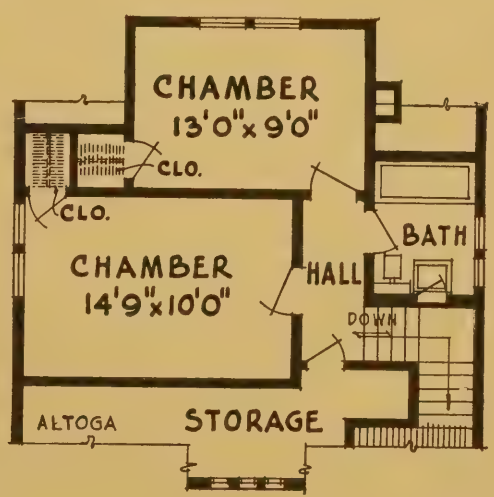
5 Rooms, Bath and Storage

"The ALTOGA"

26 Ft. Wide x 26 Ft. Deep

A PLAIN home, but separated from the ordinary by artistic details; such as shutters, flower boxes and porch. Wide siding gives a uniform appearance. The space saving closet fixtures are a convenience to be appreciated. There is a large space for storage on the second floor. All at a most moderate price.





SIZES:

Extreme Width	28' 0"
Extreme Depth	39' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

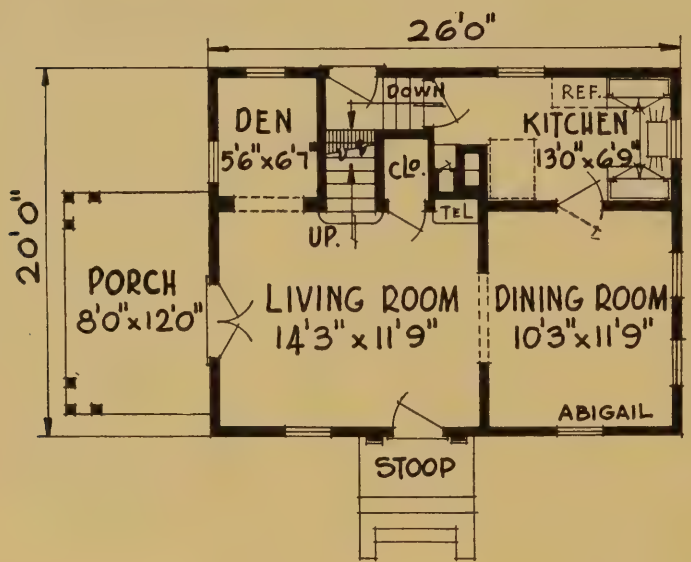
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



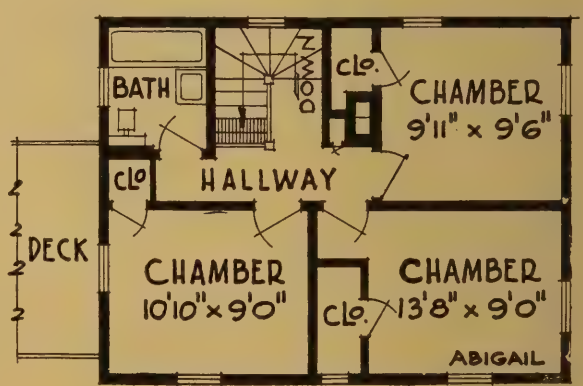
6 Rooms, Bath and Den

"The ABIGAIL"

26 Ft. Wide x 20 Ft. Deep



COLORED shutters and a tasty entrance relieve the rather plain lines of the "Abigail." It is very inexpensive to build. The interior is replete with conveniences such as telephone stand, clothes chute, kitchen cabinets, etc. Be sure and notice the cozy little den.



SIZES:

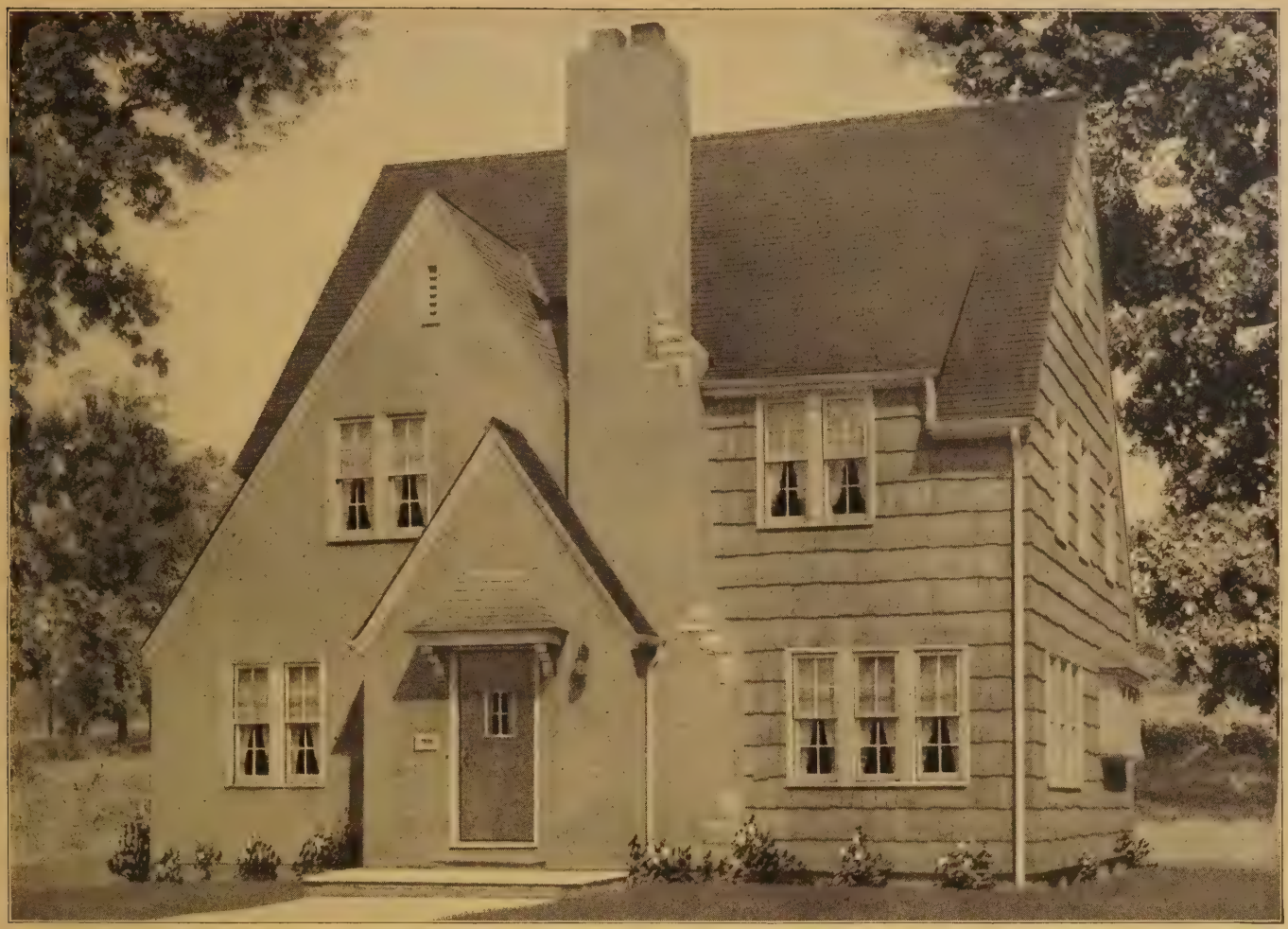
Extreme Width	36′ 3″
Extreme Depth	28′ 6″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

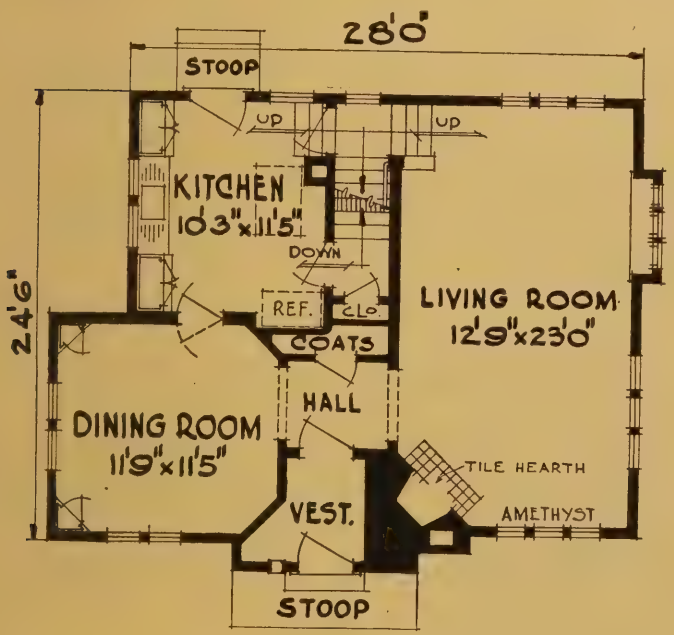
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath with Shower

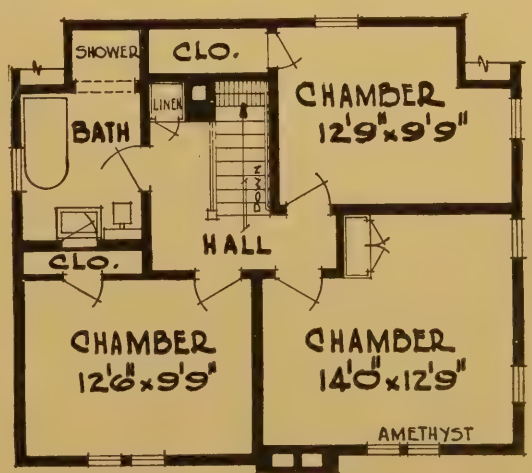
"The AMETHYST"

28 Ft. Wide x 24 Ft. 6 In. Deep



THE clever blending of stucco and shingles makes this home unique.

A built-in mail box, a shower in the bath, and a corner fireplace with an ample hearth, are but a few of the improvements in this modern and tasty home.



SIZES:

Extreme Width	34' 0"
Extreme Depth	32' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

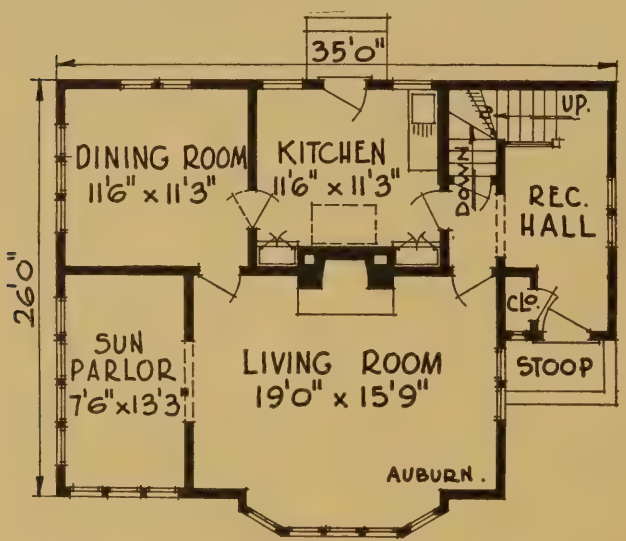
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



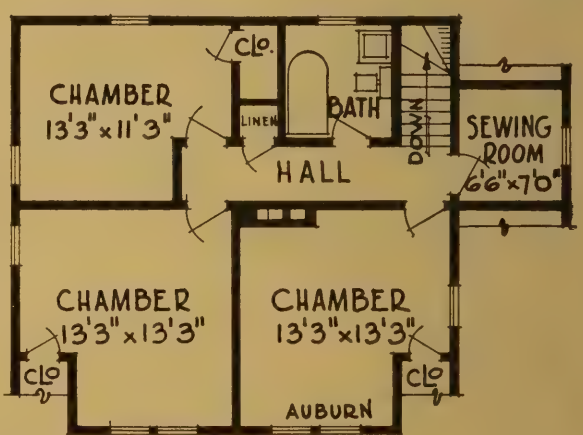
6 Rooms, Bath, Sun Parlor and Sewing Room

"The AUBURN"

35 Ft. Wide x 26 Ft. Deep



THE outward attractiveness of the "Auburn" is quite obvious nor does one have to tax his imagination to see the inward excellence. The reception hall, the sun parlor, the sunny living room, the sewing room, all go to make the "Auburn" a joy to live in.



SIZES:

Extreme Width	35' 6"
Extreme Depth	33' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items .....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms** .....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



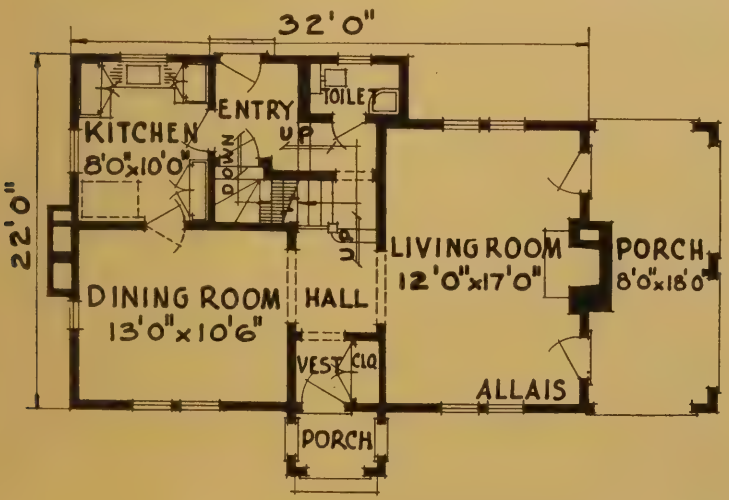
6 Rooms, Bath and Toilet

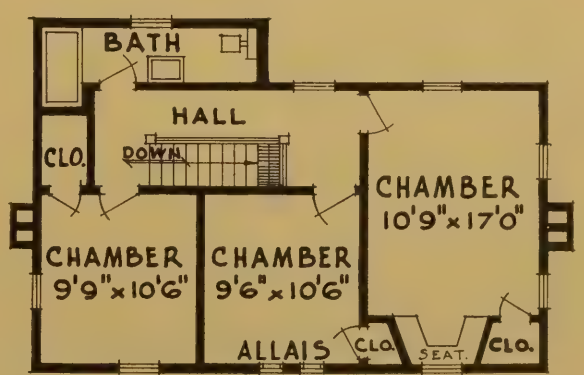
"The ALLAIS"

32 Ft. Wide x 22 Ft. Deep

A DISTINCT harmony in appearance is effected by shingling the porch supports and entrance. The use of white trim with colored shingles is instantly appealing. A downstairs toilet is one of the additional features.

Access to main stairway is from the rear as well as from the front hall.





SIZES:

Extreme Width	44' 8"
Extreme Depth	27' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

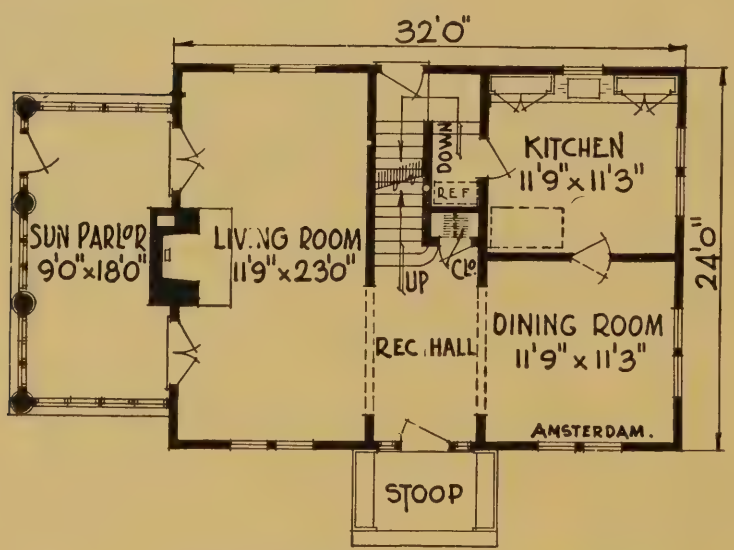


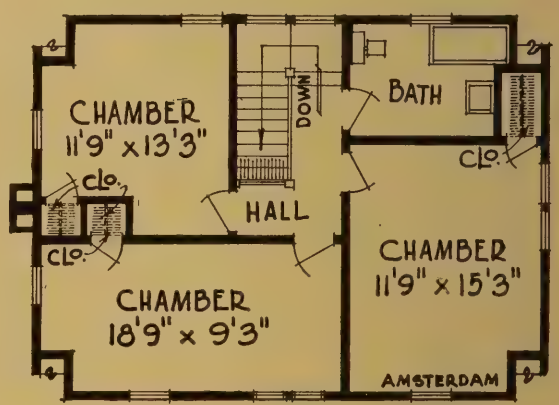
6 Rooms, Bath and Sun Parlor

"The AMSTERDAM"

32 Ft. Wide x 24 Ft. Deep

THE Dutch Colonial style carried to perfection in the frame home. The broad, sloping roof has an appeal all its own. The living room is spacious and the sun parlor, flooded with sunlight—a room of perpetual joy. Space saving closets with adjustable coat hangers are employed.





SIZES:

Extreme Width	43' 6"
Extreme Depth	32' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

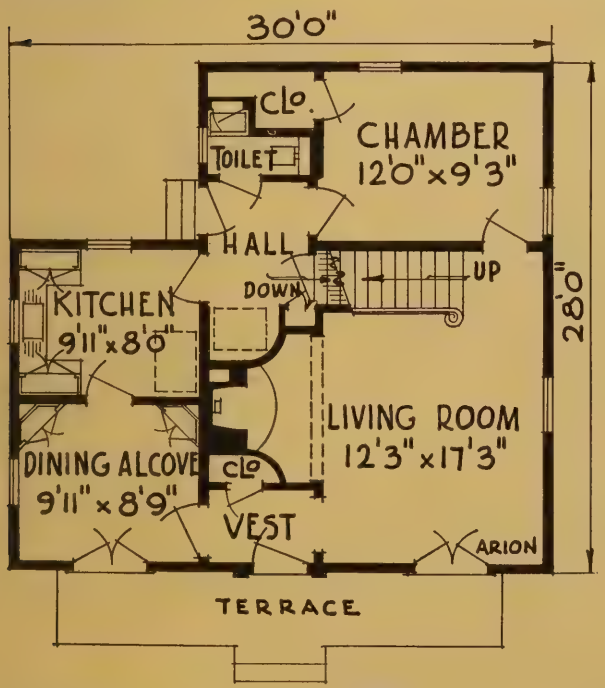
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



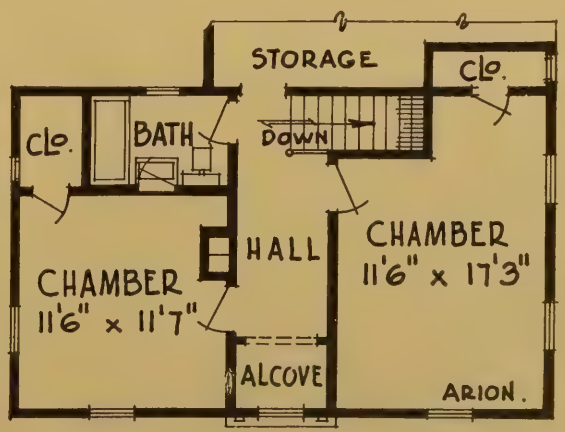
5 Rooms, Bath, Dining Alcove and Toilet

"The ARION"

30 Ft. Wide x 28 Ft. Deep



THE passerby cannot help but be attracted by the front of the "Arion." The use of large French doors downstairs and small shuttered windows upstairs is as unique as it is attractive. The recessed fireplace sets the living room off perfectly. The storage space upstairs will be of great use.



SIZES:

Extreme Width	31' 6"
Extreme Depth	35' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

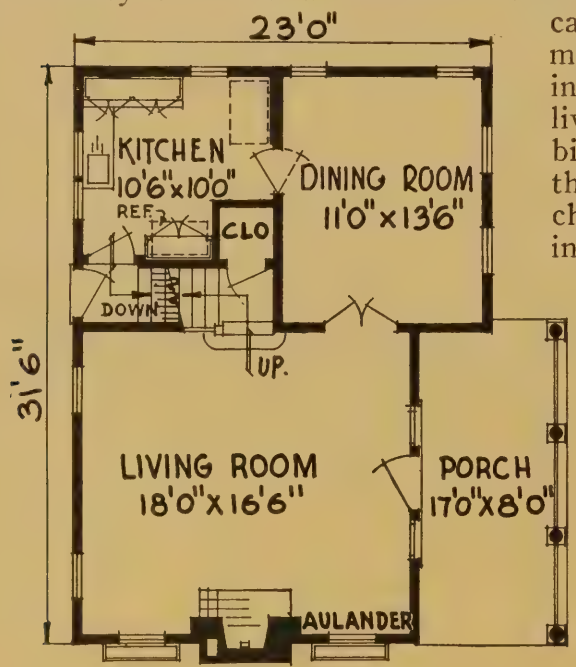


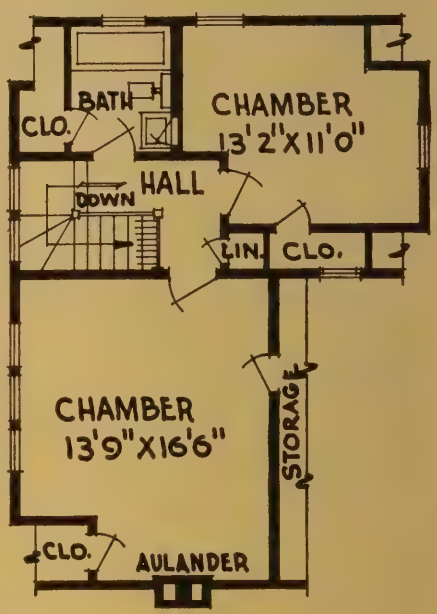
5 Rooms and Bath

"The AULANDER"

23 Ft. Wide x 31 Ft. 6 In. Deep

WIDE siding is used to good advantage in the "Aulander," and with the round columns and decorative shutters, produces an harmonious whole. The exposed chimney also has a decorative value. Built in kitchen cabinets, and a built in medicine cabinet are included. The large living room with its big fire-place will be the source of many cheerful winter evenings.





SIZES:

Extreme Width	29' 9"
Extreme Depth	33' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

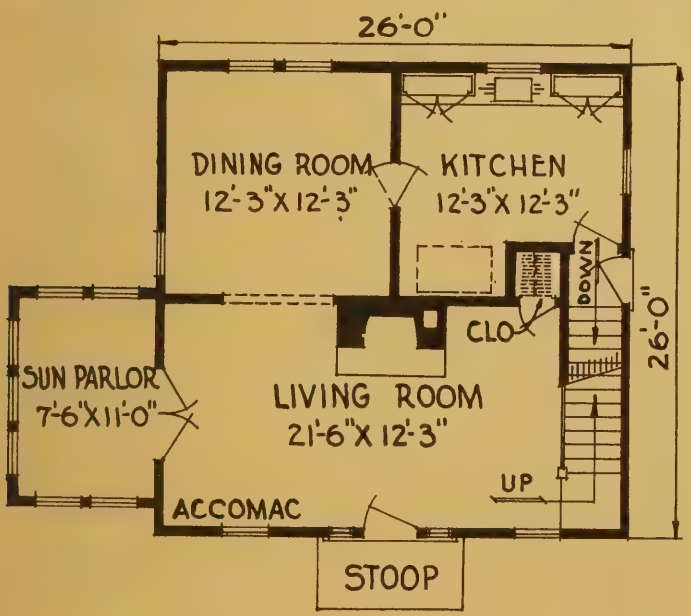
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



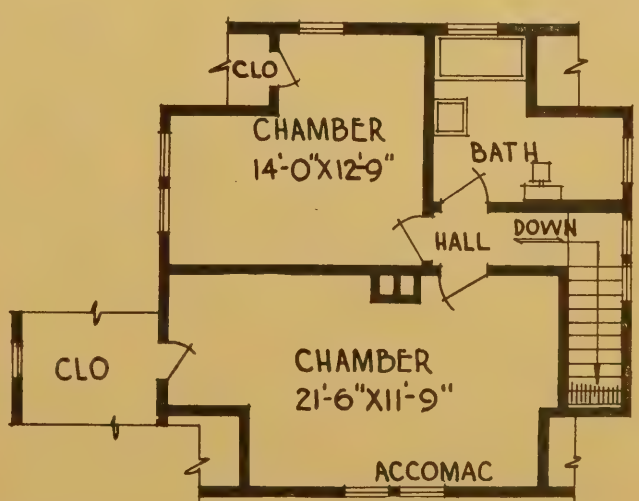
5 Rooms, Bath and Sun Parlor

"The ACCOMAC"

34 Ft. Wide x 26 Ft. Deep



A TRIM house, clean, comfortable and attractive. Many interesting roof angles give it individuality. Downstairs and up one cannot help but be aware of the particular excellence of arrangement. The kitchen is fully equipped and the closets are fitted with space saving fixtures.



SIZES:

Extreme Width	38' 0"
Extreme Depth	32' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

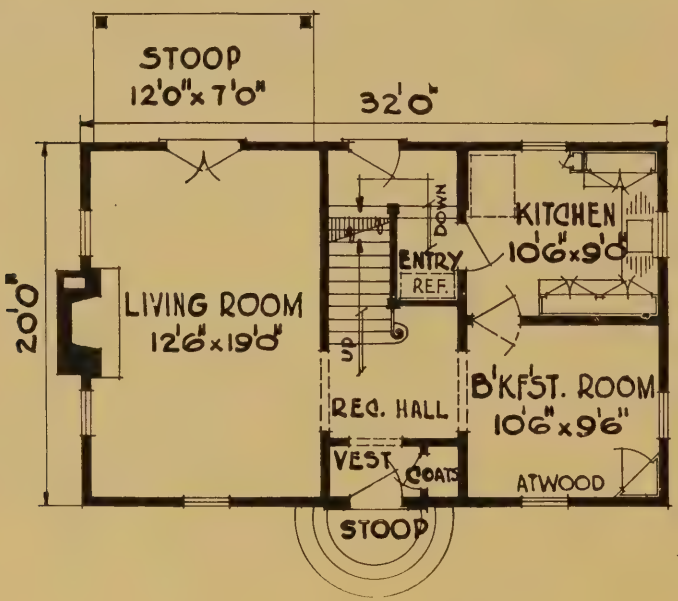
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



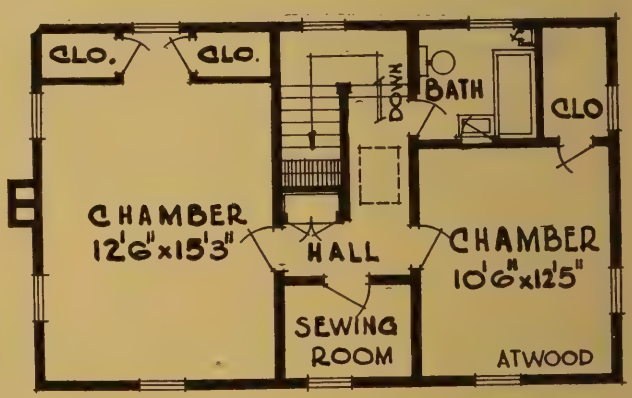
5 Rooms, Bath and Sewing Room

"The ATWOOD"

32 Ft. Wide x 20 Ft. Deep



A MODERN New England colonial home. The exterior with the shuttered windows and quaint entrance retains all the beauty of our early architecture, while the interior has all the modern conveniences and sanitary equipment which is essential to the comfort and living conditions of the present day generation.



SIZES:

Extreme Width	34' 0"
Extreme Depth	37' 0"
First Floor Ceiling	8' 0"
Second Floor Ceiling	7' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

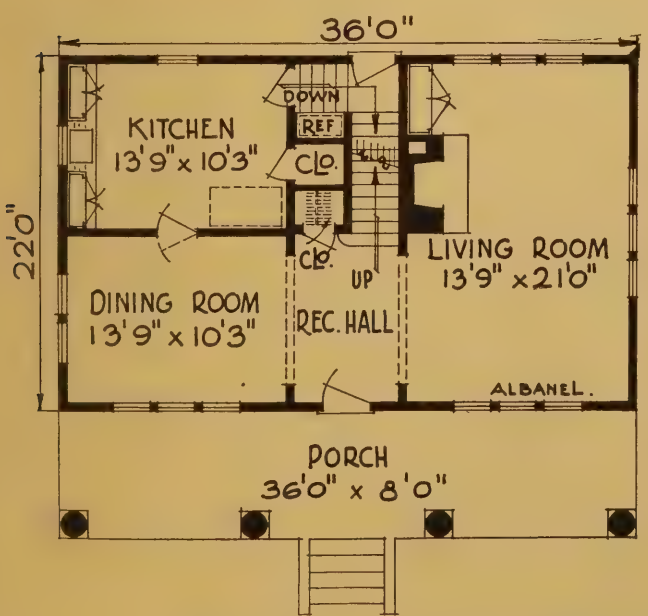


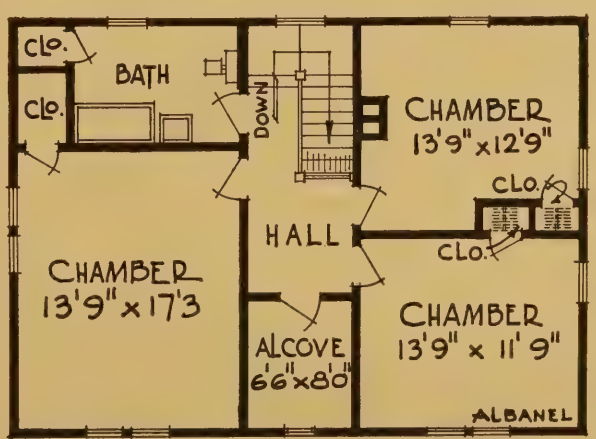
6 Rooms, Bath and Alcove

"The ALBANEL"

36 Ft. Wide x 22 Ft. Deep

BEAUTIFUL in every detail from the classic pillars to the long sloping roof. A home of quiet dignity dominating its immediate surroundings. The interior is complete with all modern equipment from the utility kitchen to the space saving closet fixtures.





SIZES:

Extreme Width	43' 0"
Extreme Depth	36' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

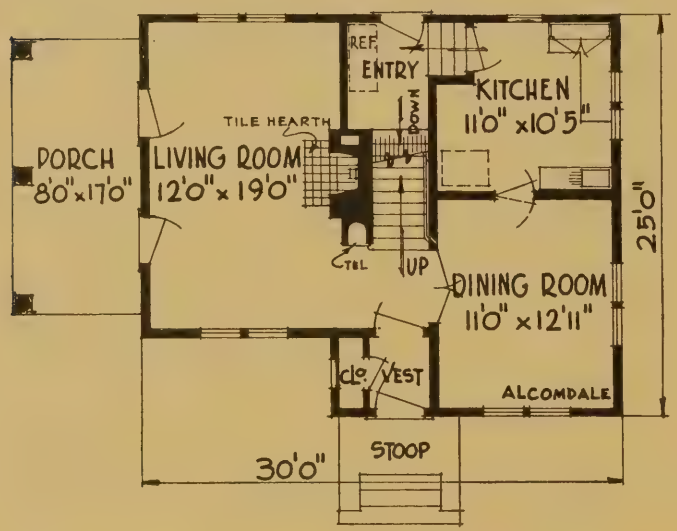
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



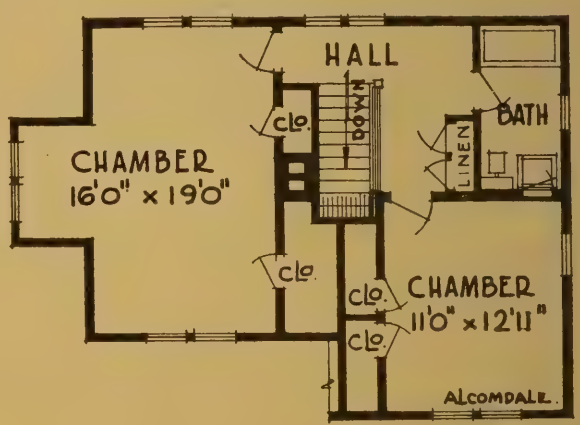
5 Rooms and Bath

"The ALCOMDALE"

30 Ft. Wide x 25 Ft. Deep



AN exterior of balanced roof lines producing a harmonious effect. The living room with its tile hearth opens onto a spacious open porch. The upstairs consists of a large hall, two large chambers, bath and plenty of closets for the housewife.



SIZES:

Extreme Width	40′ 0″
Extreme Depth	33′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

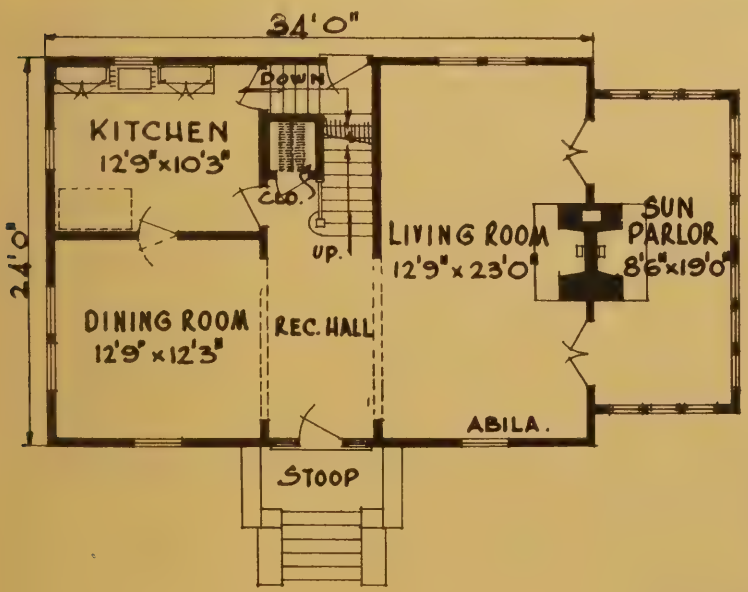
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



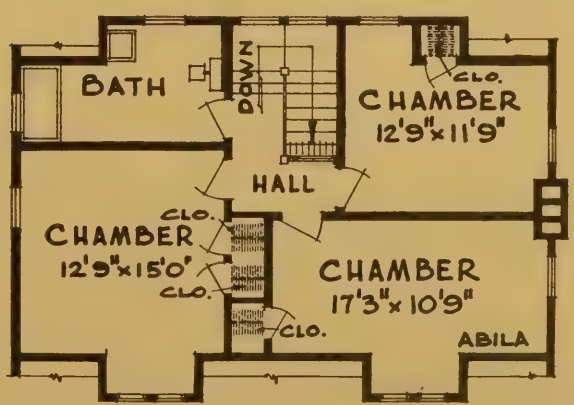
6 Rooms, Bath and Sun Parlor

"The ABILA"

34 Ft. Wide x 24 Ft. Deep



A QUAINT home, pleasing in every detail, of form, color and construction. The sun room is fairly dazzling when the sun shines and is equipped with a fireplace for the drearier winter days. Each chamber provides many attractive possibilities for furnishing. Space saving closet fixtures are employed.



SIZES:

Extreme Width	46' 0"
Extreme Depth	34' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

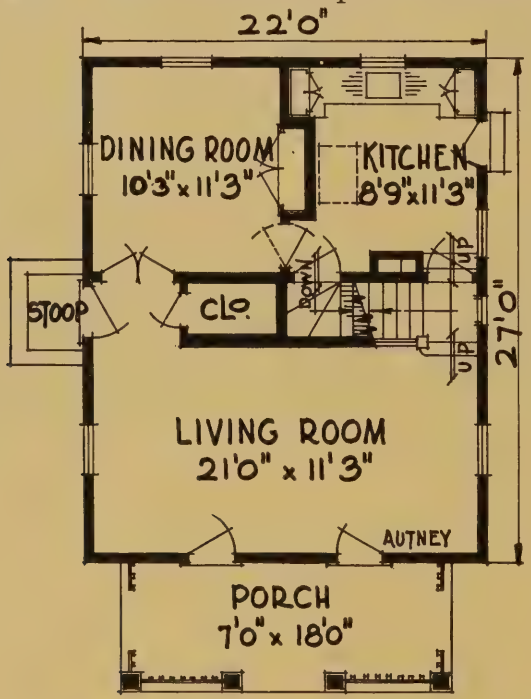


6 Rooms and Bath

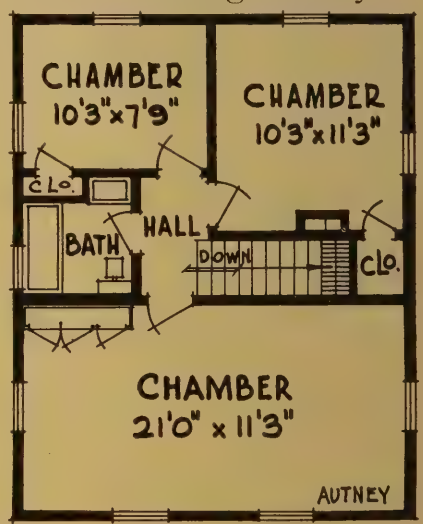
"The AUTNEY"

22 Ft. Wide x 27 Ft. Deep

THE "Autney" is a very popular type of home, and justifiably so. An harmonious exterior, and a convenient distribution of the rooms account for this. The trellised porch offers pleasant evenings, as well as adding beauty to the home. The large chamber with built in wardrobe speaks for itself.



A DISAPPEARING BED CAN BE ROLLED OUT OF CLOSET INTO LIVING ROOM THEREBY ADDING ANOTHER SLEEPING CHAMBER AT NIGHT IF SO DESIRED.



SIZES:

Extreme Width	28' 0"
Extreme Depth	37' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

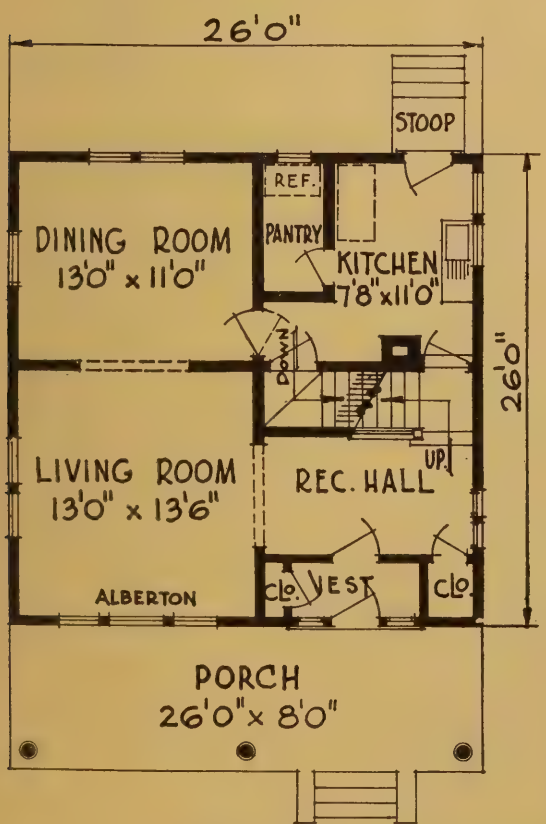
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



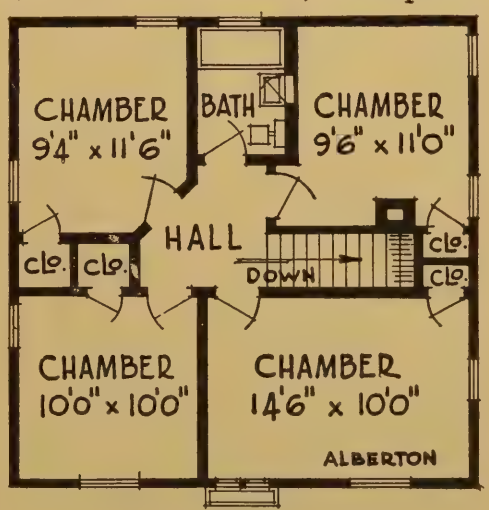
7 Rooms and Bath

"The ALBERTON"

26 Ft. Wide x 26 Ft. Deep



A CLEAN, prosperous looking home, that will grace any community. The vestibule and reception hall, each with closet, is impressive. Four good sized chambers provide room for every one.



SIZES:

Extreme Width	30' 0"
Extreme Depth	41' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

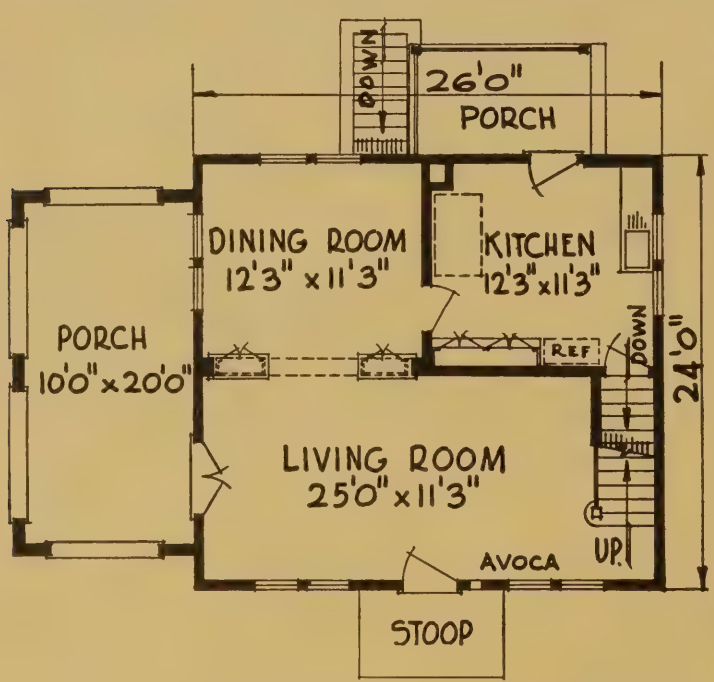


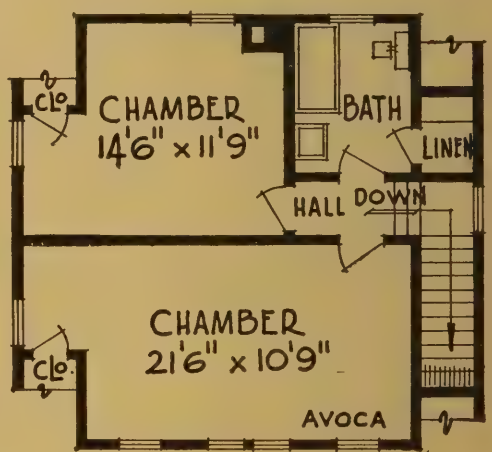
5 Rooms and Bath

"The AVOCA"

26 Ft. Wide x 24 Ft. Deep

THE "Avoca" is a superb dwelling offering all to be desired in a home of this size. Wide, comfortable rooms within easy access of one another, two porches, a roomy and handy kitchen are among the joys found in the "Avoca." The hooded entrance is pleasant and hospitable.





SIZES:

Extreme Width	42' 6"
Extreme Depth	36' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

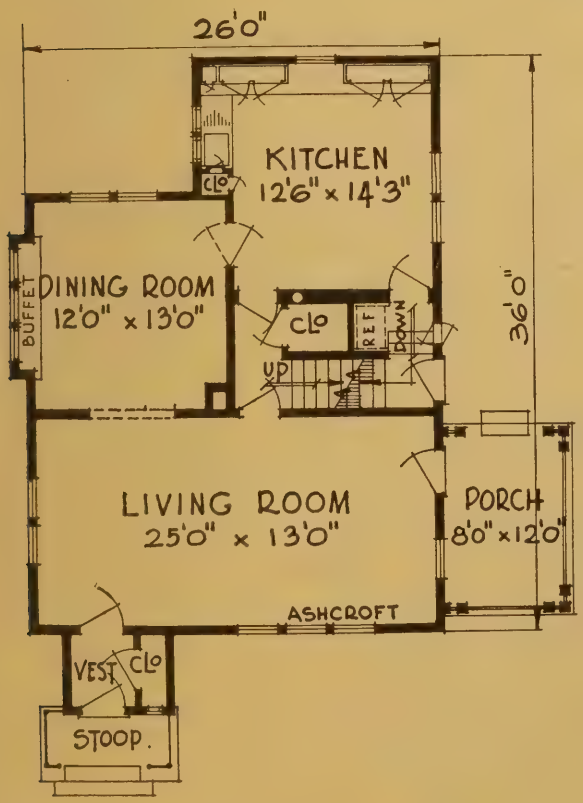
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



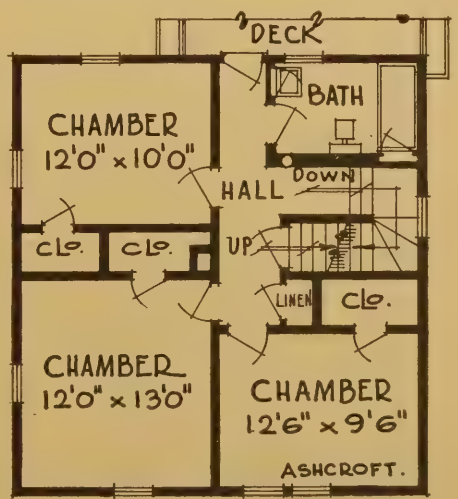
6 Rooms and Bath

"The ASHCROFT"

26 Ft. Wide x 27 Ft. 6 In Deep



RESPLENDENT in its clean, white beauty. The entrance with its neat iron railings is an interesting touch. Numerous little closets downstairs are details appreciated by the housewife.



SIZES:

Extreme Width	37' 6"
Extreme Depth	47' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

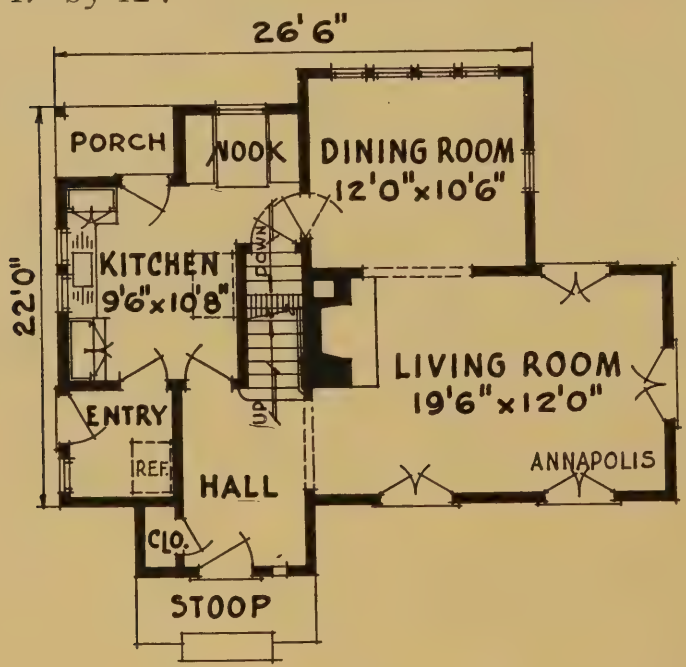


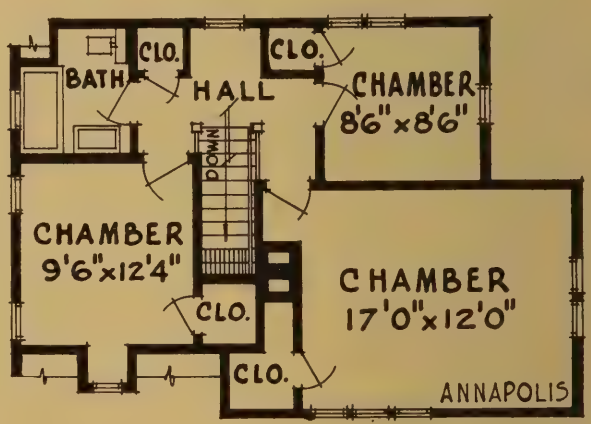
6 Rooms, Bath and Nook

"The ANNAPOLIS"

34 Ft. Wide x 22 Ft. Deep

LIGHT shingles with dark trim produces a delightful effect. In the Modern English Style. An entrance that is inviting and interesting. There is a breakfast nook off the well equipped kitchen. Notice that the large chamber is 17′ by 12′.





SIZES:

Extreme Width	37′ 0″
Extreme Depth	33′ 6″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



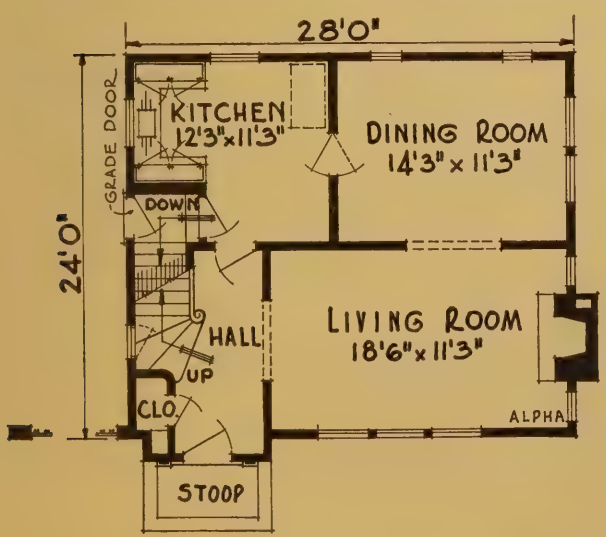
6 Rooms and Bath

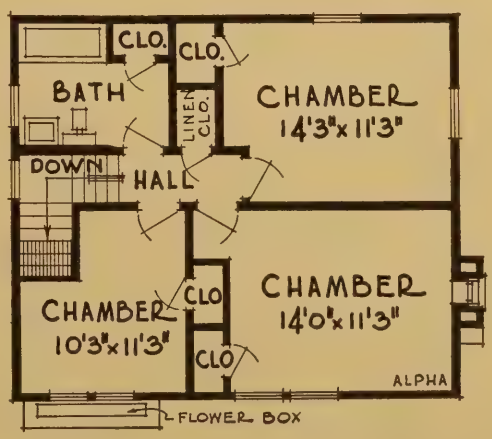
"The ALPHA"

28 Ft. Wide x 24 Ft. Deep

A HOME is a permanent investment which saves rent and protects the family. Besides, it offers happiness at the present by producing comfort, congenial surroundings and the independent feeling of possessing one's own home.

The above substantial colonial dwelling is very popular among the American public. The style of the structure is up-to-date, and is always in demand.





SIZES:

Extreme Width	37' 6"
Extreme Depth	31' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

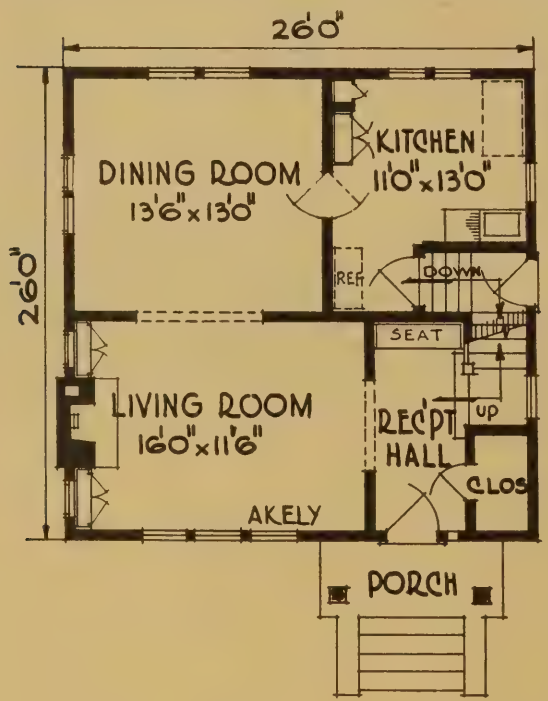


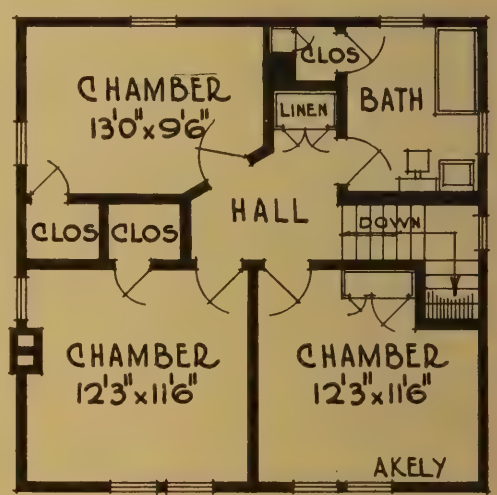
6 Rooms and Bath

"The AKELY"

26 Ft. Wide x 26 Ft. Deep

A FETCHING home of the square type, thereby affording plenty of room space for furniture. The fire-place with flanking book-cases should be noticed. The "Akely" is resplendent with many convenient devices, such as clothes chute, kitchen cabinet, linen closet, etc. The large reception hall is at once impressive.





SIZES:

Extreme Width	30′ 0″
Extreme Depth	36′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

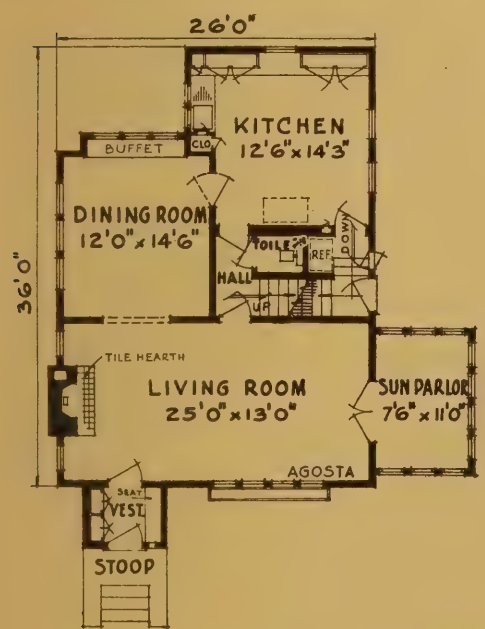
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



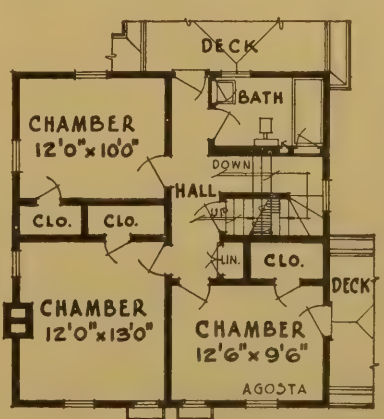
6 Rooms, Bath, Sun Parlor and Toilet

"The AGOSTA"

26 Ft. Wide x 36 Ft. Deep



PRACTICAL and economical, yet possessing a very definite beauty. A sun parlor beaming with light, opens off the long living room. In the dining room we find a built-in buffet. A toilet downstairs is one of the many conveniences.



SIZES:

Extreme Width	36' 0"
Extreme Depth	48' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 6"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

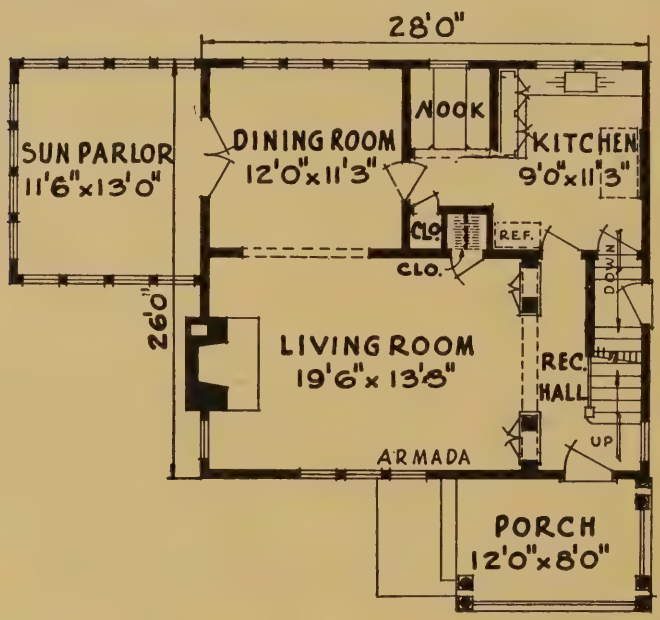
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



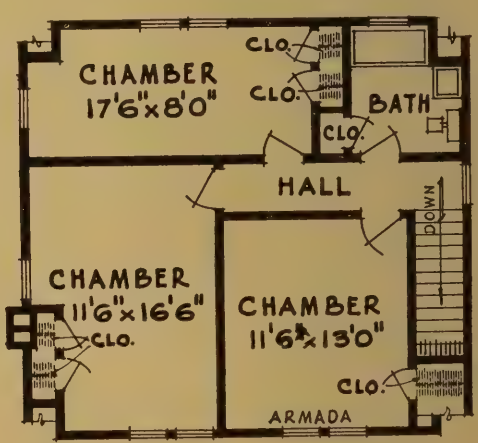
6 Rooms, Bath, Sun Parlor and Dining Nook

"The ARMADA"

28 Ft. Wide x 26 Ft. Deep



A MODIFICATION of the Dutch Colonial Style. The pillared porch on one corner, and the sun parlor on another, give a rich rambling appearance to the "Armada." The living room is entered from the reception hall through a colonnaded opening, flanked with book cases. You are immediately aware of the sweep of the room, and the big fire-place at the other end.



SIZES:

Extreme Width	45' 0"
Extreme Depth	38' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

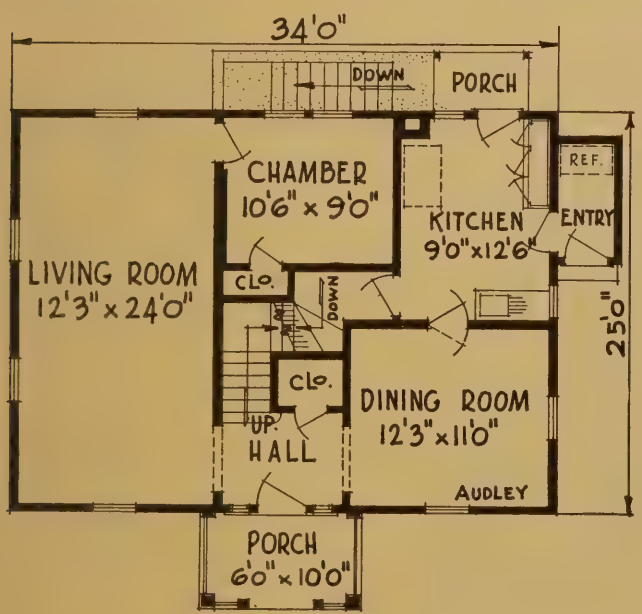
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



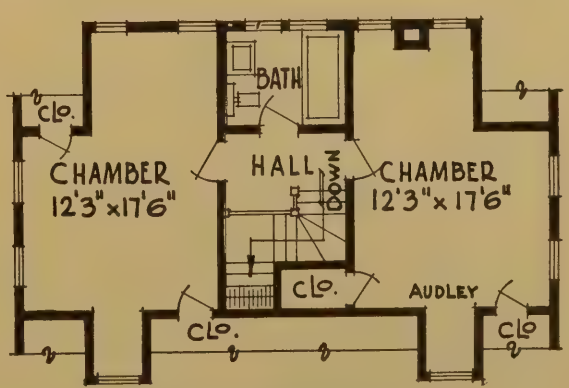
6 Rooms and Bath

"The AUDLEY"

34 Ft. Wide x 24 Ft. Deep



A CAPE COD house and embodying all the advantages of the same. One here finds living comfort at a moderate price. In studying the plans closely the excellence of the arrangement becomes impressed on one.



SIZES:

Extreme Width	39' 6"
Extreme Depth	37' 3"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

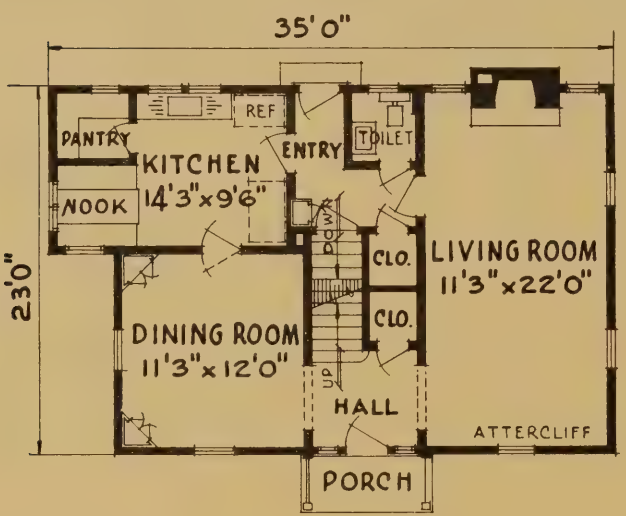
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



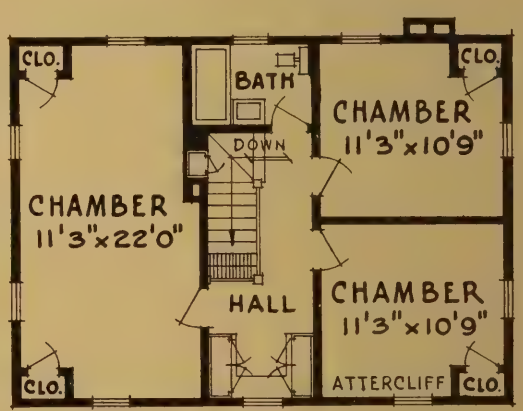
6 Rooms, Bath, Toilet and Dining Nook

"The ATTERCLIFF"

35 Ft. Wide x 23 Ft. Deep



A NEW ENGLAND home of the old Cape Cod type. The wide shingles and shuttered windows are typical features of this style of architecture. The large living room with fire place, the convenient breakfast nook and the large chambers make the Attercliff a most desirable home and one that will improve any locality.



SIZES:

Extreme Width	35′ 8″
Extreme Depth	28′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

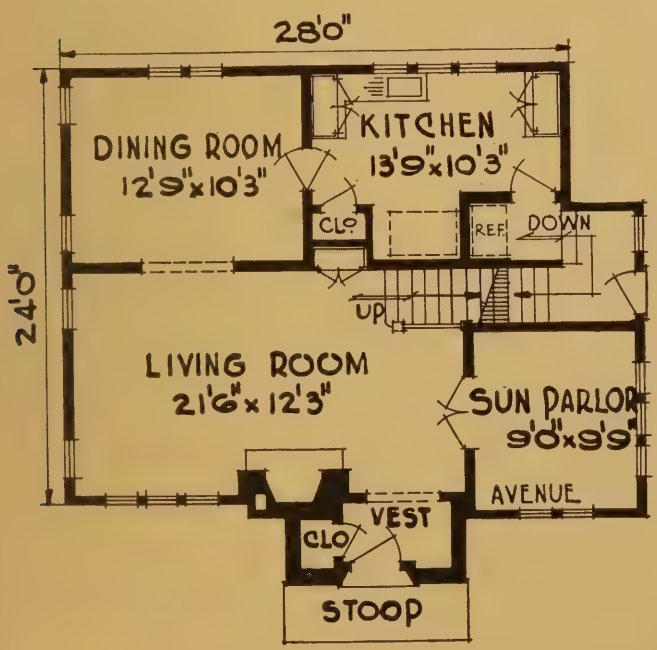


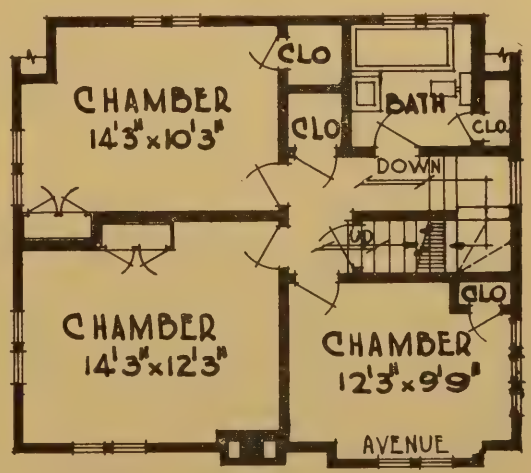
6 Rooms, Bath and Sun Parlor

"The AVENUE"

32 Ft. Wide x 24 Ft. Deep

THE modern innovation of using several different kinds of building material in the same home is again demonstrated in the "Avenue." Stucco and shingles blend here in perfect harmony. The suggestion of ample room given by the out side is fulfilled within. Especial attention should be called to the perfectly placed sun parlor.





SIZES:

Extreme Width	35' 0"
Extreme Depth	33' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

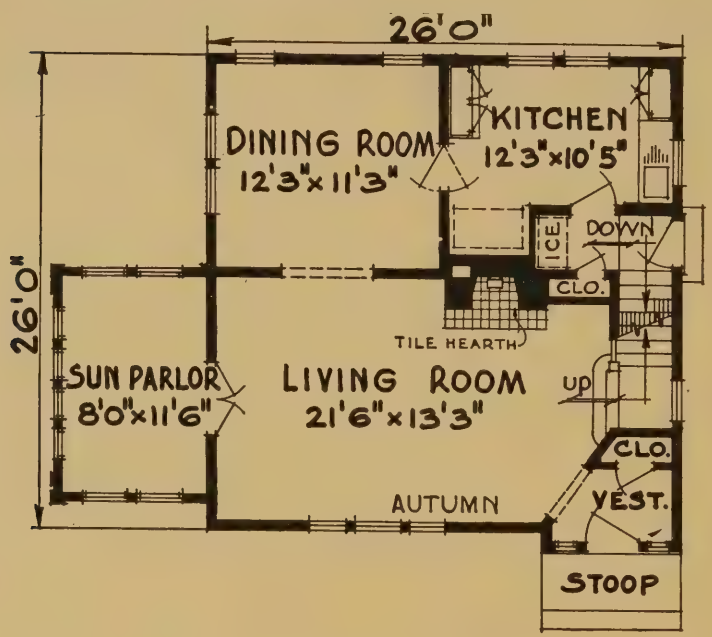
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms, Bath and Sun Parlor

"The AUTUMN"

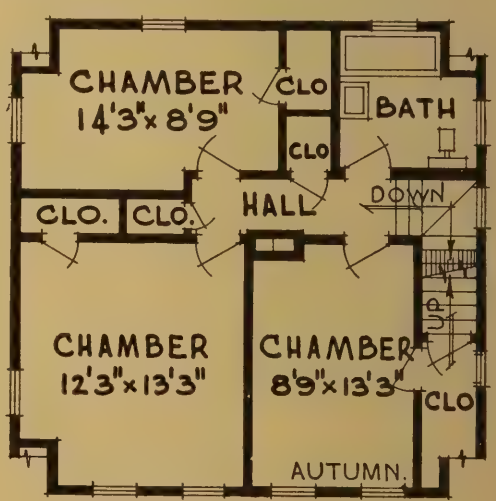
26 Ft. Wide x 26 Ft. Deep



THE arched entrance sets the "AUTUMN" apart from its neighbors.

Nine windows with divided lights produce a charming front.

The living room with the adjacent sun parlor is an ideal convenience creating sunlight and happiness. The long winter evenings will pass pleasantly around the cheerful fire-place.



SIZES:

Extreme Width	36′ 6″
Extreme Depth	33′ 0′
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

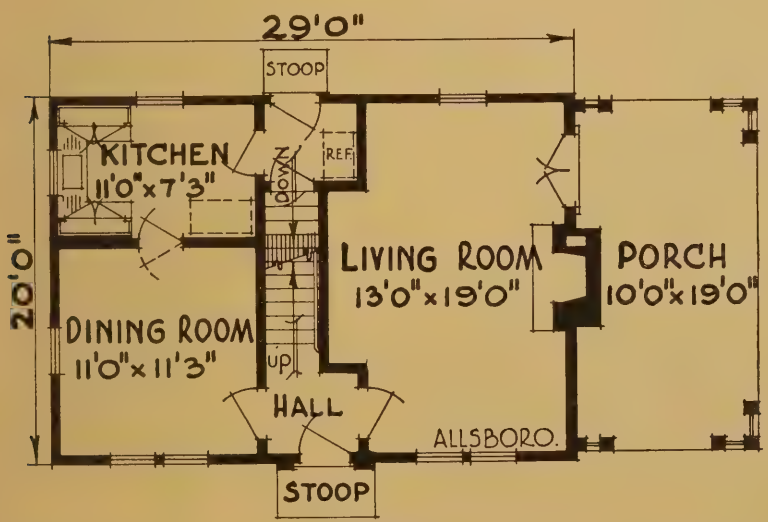


6 Rooms and Bath

"The ALLSBORO"

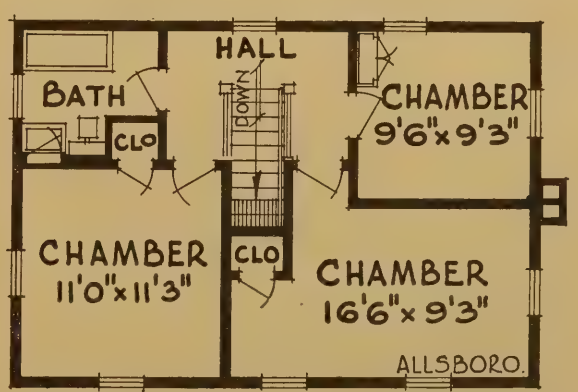
29 Ft. Wide x 20 Ft. Deep

SIMPLE, yet appealing in its simplicity. The wide open, airy porch will be appreciated on warm moonlight nights. Then there is the big booming fireplace for the winter evenings. Large chambers are among the practical features.



SIZES:

Extreme Width	40′ 0″
Extreme Depth	25′ 6″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″



Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

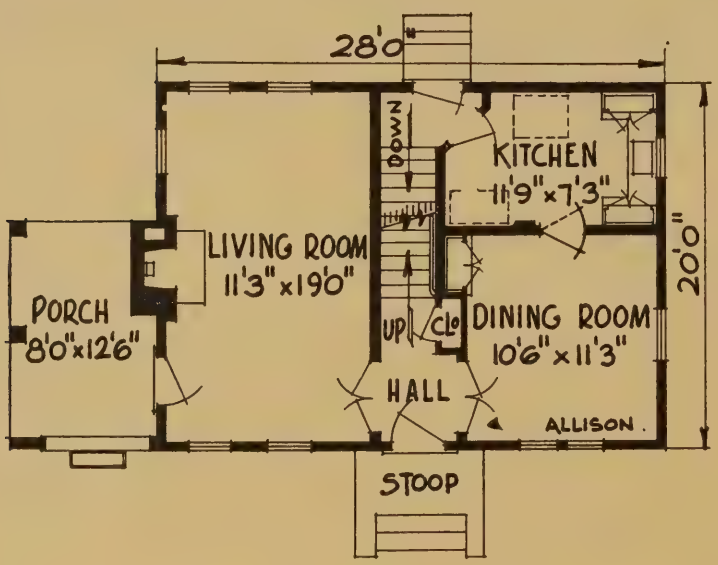
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



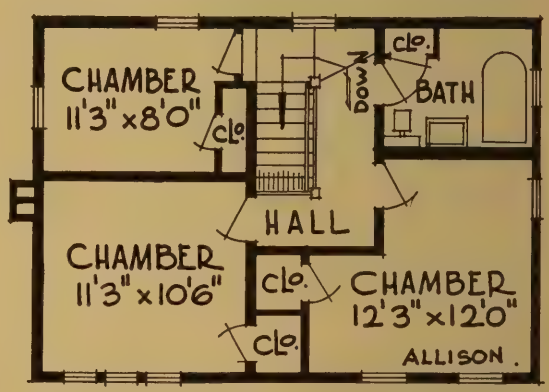
6 Rooms and Bath

"The ALLISON"

28 Ft. Wide x 20 Ft. Deep



BEAUTIFULLY done" is the expression passers-by have for the "Allison." Stained shingles with darker trim is unusual and effective. Inside we find a most livable home.



SIZES:

Extreme Width	38' 6"
Extreme Depth	30' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

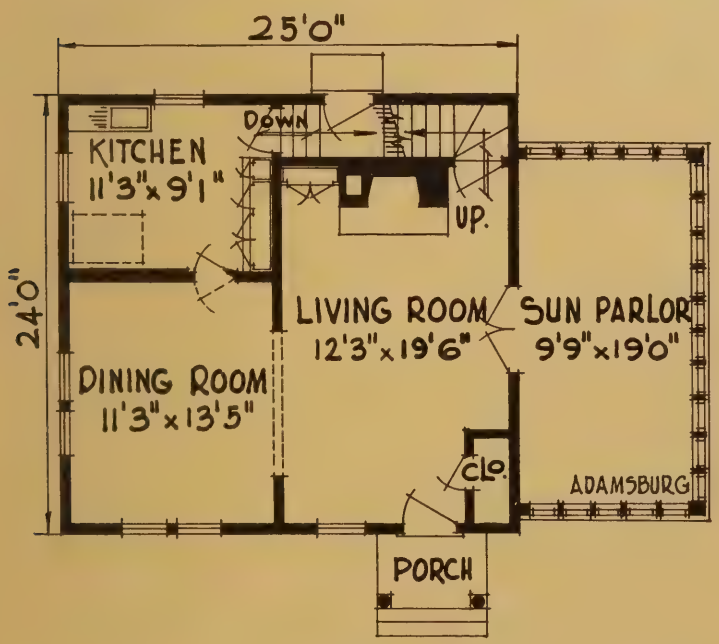
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms, Bath and Sun Parlor

"The ADAMSBURG"

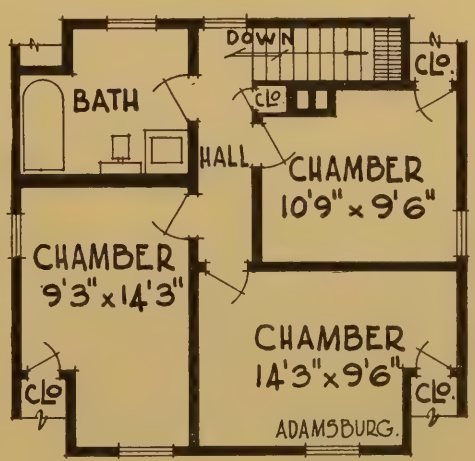
25 Ft. Wide x 24 Ft. Deep



SIZES:

Extreme Width	36′ 6″
Extreme Depth	32′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

THE passer-by is at once impressed with the spacious sun parlor. The use of shutters with wide shingles is always effective and pleasing. The large, comfortable living room adjoining the sun parlor, fulfills the promises of the handsome exterior.



Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

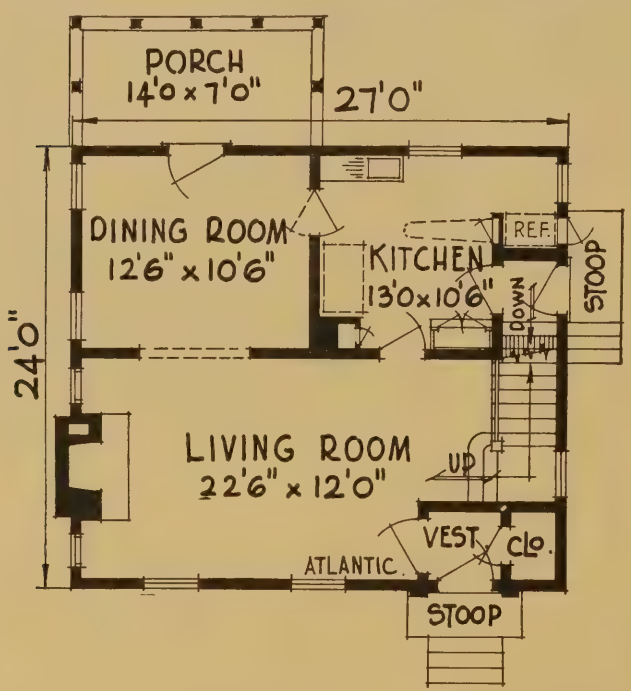


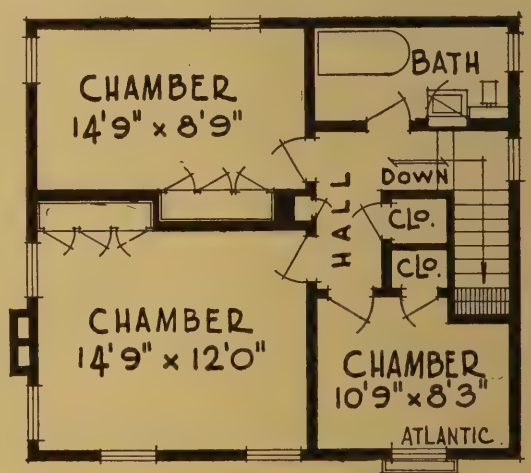
6 Rooms and Bath

"The ATLANTIC"

27 Ft. Wide x 24 Ft. Deep

A SMALL, clean and neat dwelling, satisfying every desire for living comfort. Wardrobes in the chambers, a clothes chute, and a large porch off the dining room, are among the many devices for insuring domestic happiness.





SIZES:

Extreme Width	31' 0"
Extreme Depth	37' 0"
First Floor Ceiling	9' 0"
Second Flor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

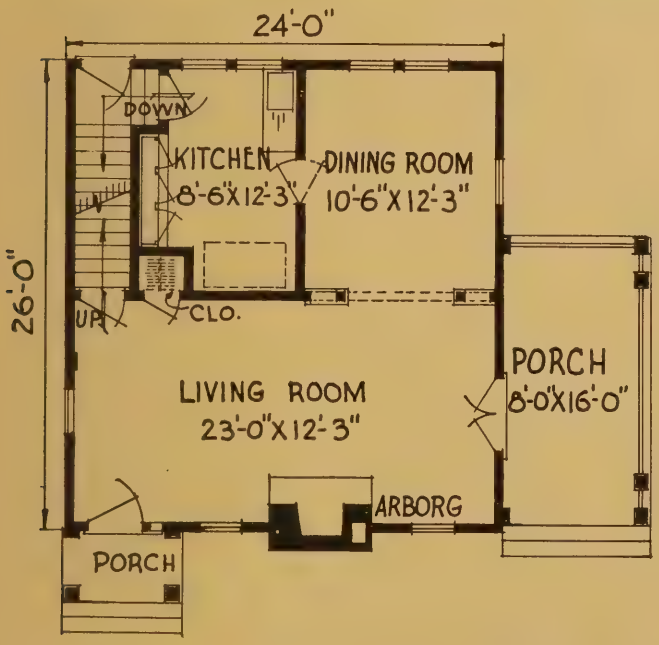
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



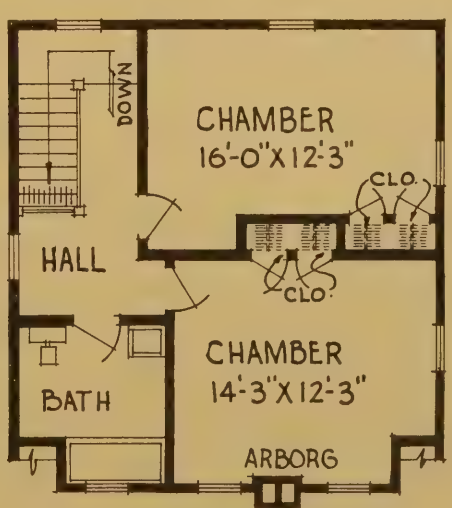
5 Rooms and Bath

"The ARBORG"

24 Ft. Wide x 26 Ft. Deep



THE architect showed excellent taste in placing the big chimney in front where it can be best contrasted to the siding and shutters. The living room is a room of delight, enhanced as it is by the booming fire place, and colonnaded opening to the dining room. Space saving closet fixtures gives added neatness and convenience.



SIZES:

Extreme Width	35′ 0″
Extreme Depth	33′ 6″
First Floor Ceiling	9′ 0″
Second Floor Ceiling	8′ 6″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

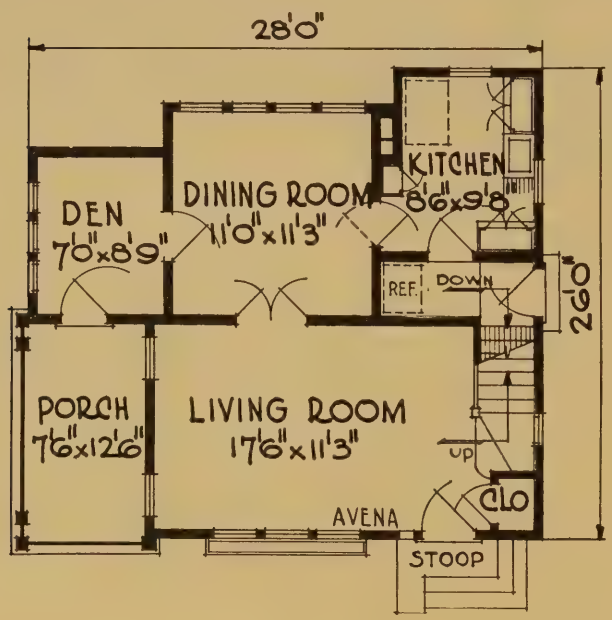
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



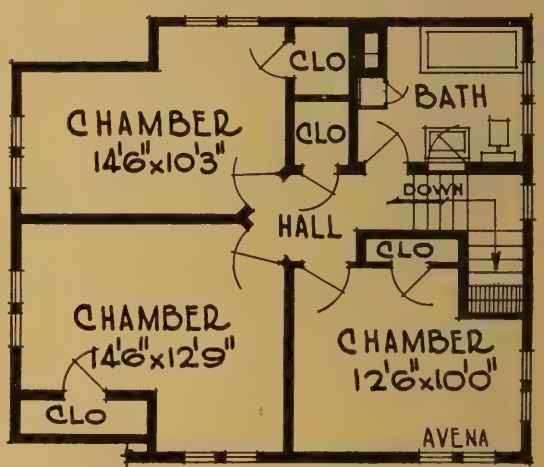
6 Rooms, Bath and Den

"The AVENA"

28 Ft. Wide x 26 Ft. Deep



SHINGLES and stucco blend perfectly in the "Avena." A cozy den and adjoining porch are special features. The architect's consideration of the housewife is shown by the clothes chute, kitchen cabinet, and general handiness of arrangement.



SIZES:

Extreme Width	32' 0"
Extreme Depth	30' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

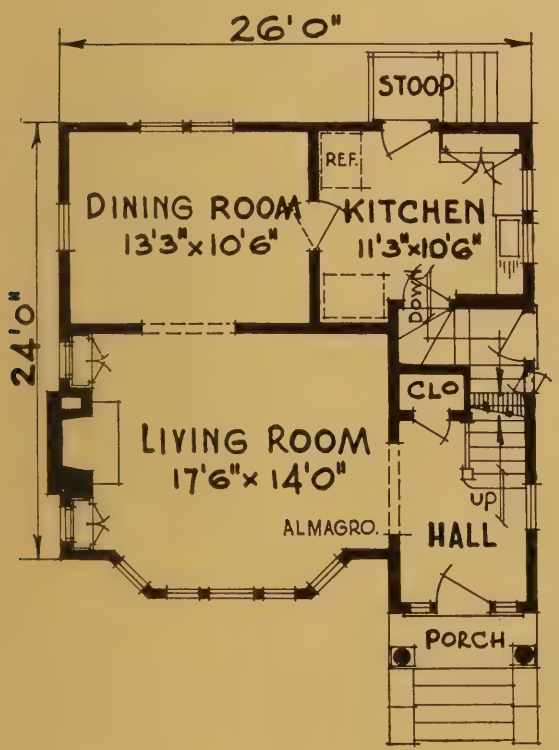
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



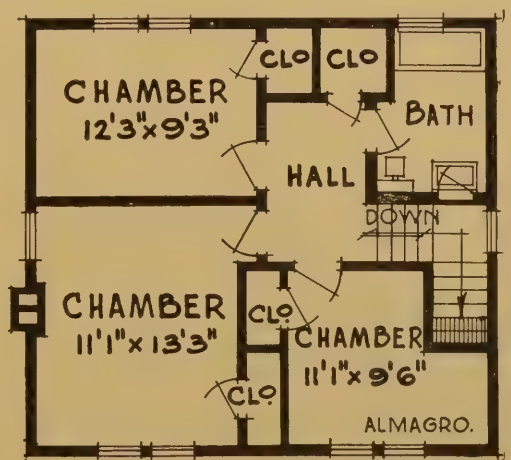
6 Rooms and Bath

"The ALMAGRO"

26 Ft. Wide x 24 Ft. Deep



SHOWS the adaptability of the Dutch Colonial style to the small home. The white columned entrance against the colored shingle back-ground is very effective. The large front bay makes the living room a dream indeed.



SIZES:

Extreme Width	29' 8"
Extreme Depth	38' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

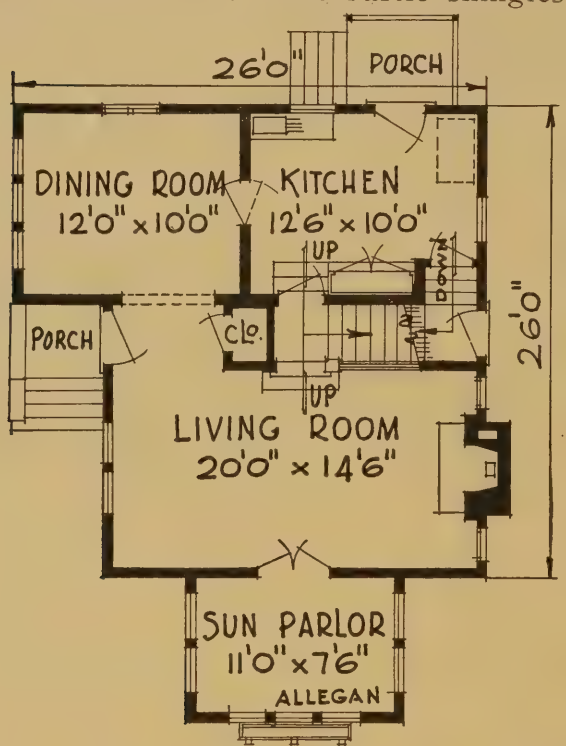


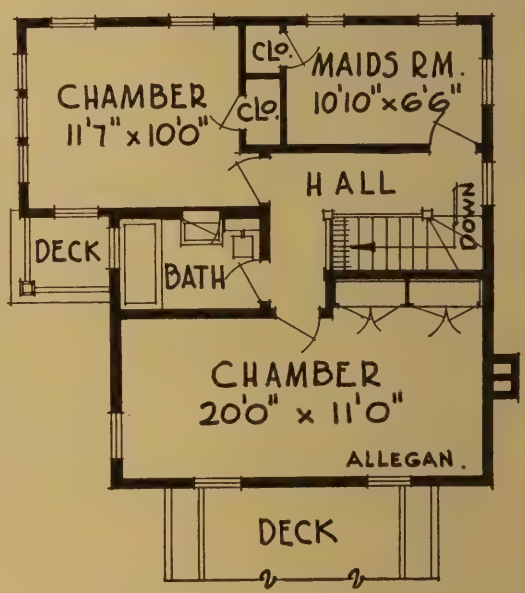
Six Rooms, Bath and Sun Parlor

"The ALLEGAN"

26 Ft. Wide x 26 Ft. Deep

THE square type of homes are always popular as they offer the most space for practical arrangement of rooms. The rustic shingles with painted trim and shutters make a pleasing combination. The interior with the large living room and adjoining sun parlor was designed for comfort at a moderate cost.





SIZES:

Extreme Width	30' 0"
Extreme Depth	40' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

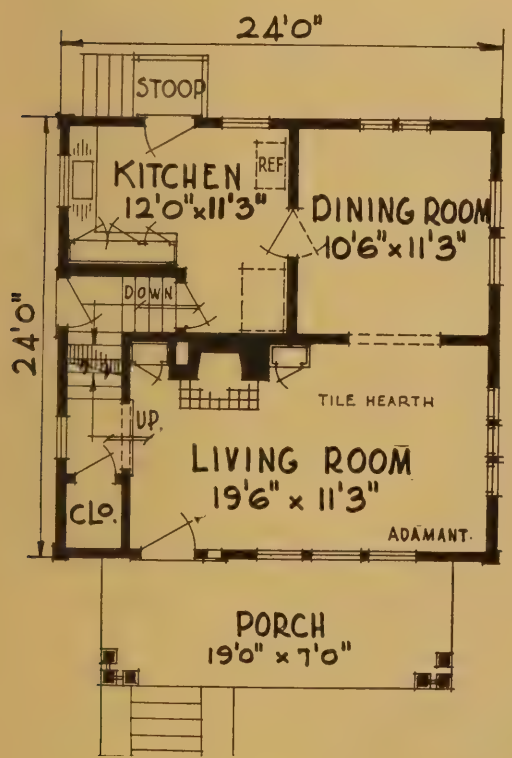
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



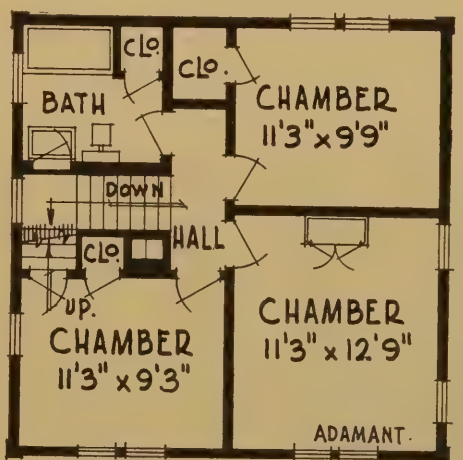
6 Rooms and Bath

"The ADAMANT"

24 Ft. Wide x 24 Ft. Deep



AN INVITING dwelling with shingled walls. The large porch with upper balcony aids in giving the impression of roominess and comfort. Ample rooms provide the homelike atmosphere inside.



SIZES:

Extreme Width	26' 6"
Extreme Depth	38' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

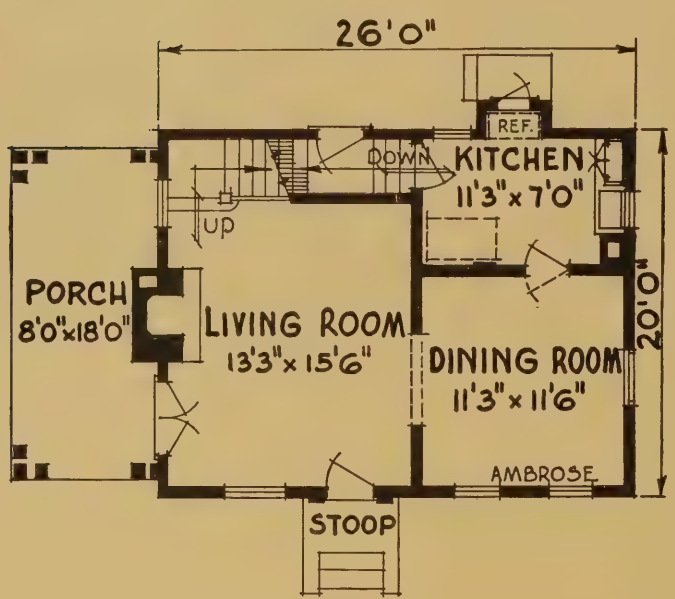


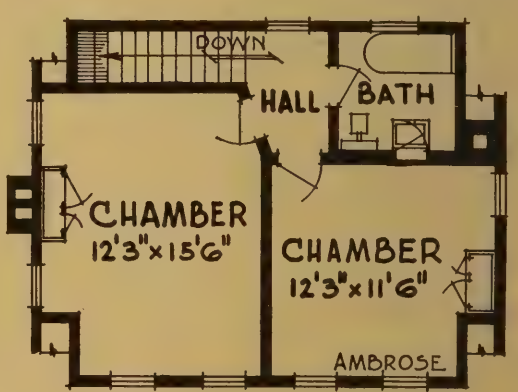
5 Rooms and Bath

"The AMBROSE"

26 Ft. Wide x 20 Ft. Deep

A DUTCH Colonial home of the conventional type. Two large chambers with wardrobes, and a bath, make up the second floor. The "Ambrose" is economical in cost and upkeep.





SIZES:

Extreme Width	35′ 0″
Extreme Depth	30′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

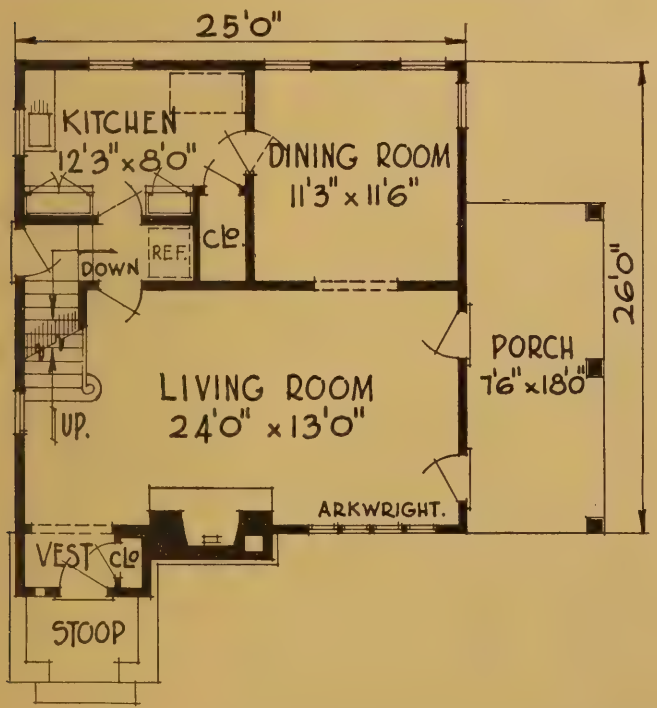


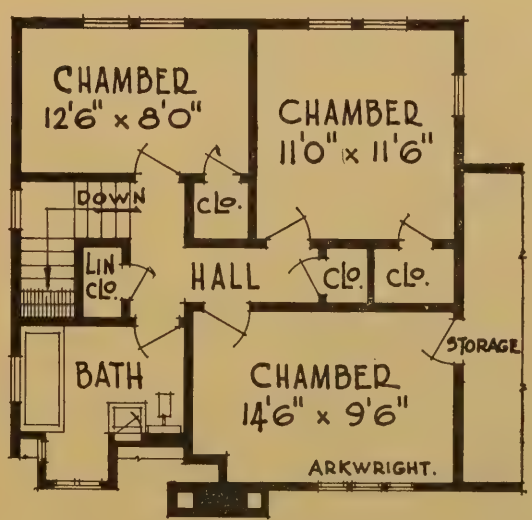
6 Rooms and Bath

"The ARKWRIGHT"

25 Ft. Wide x 26 Ft. Deep

STUCCO, shingles, and brick are blended into one harmonious whole. The chimney is an architectural gem. Spacious rooms make the "Arkwright" comfortable, as well as distinctive.





SIZES:

Extreme Width	34' 6"
Extreme Depth	36' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

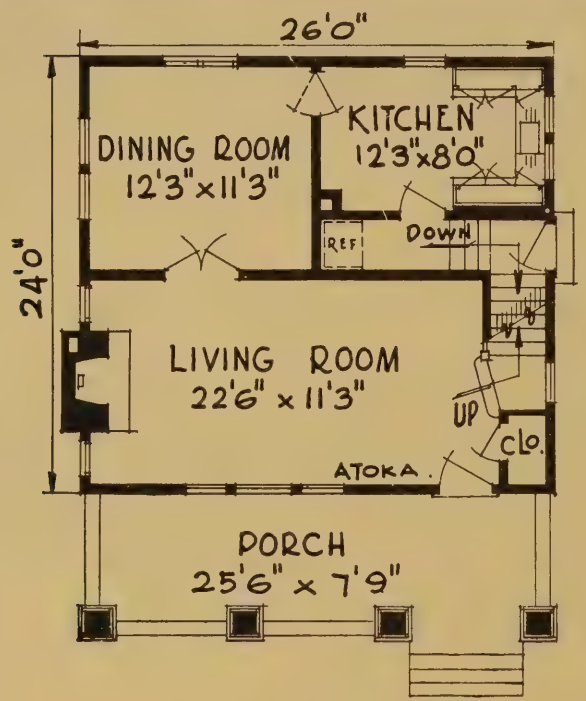
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



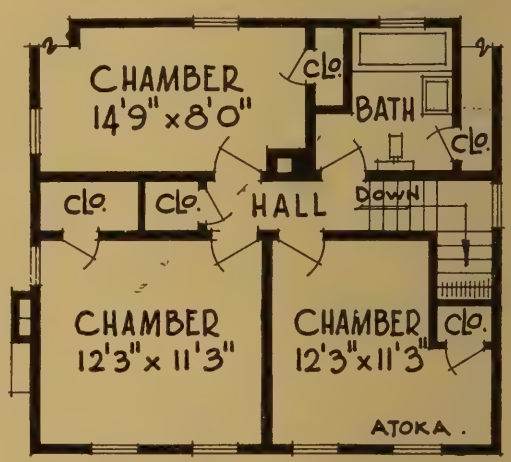
6 Rooms and Bath

"The ATOKA"

25 Ft. Wide x 24 Ft. Deep



THE rustic shingled walls give this popular design a restful home-like appearance. The massive, comfortable front porch should be noticed. The big living room with fire-place, the convenient kitchen and three chambers with ample closet space, shows the designers careful consideration for home comforts.



SIZES:

Extreme Width	30' 6"
Extreme Depth	37' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

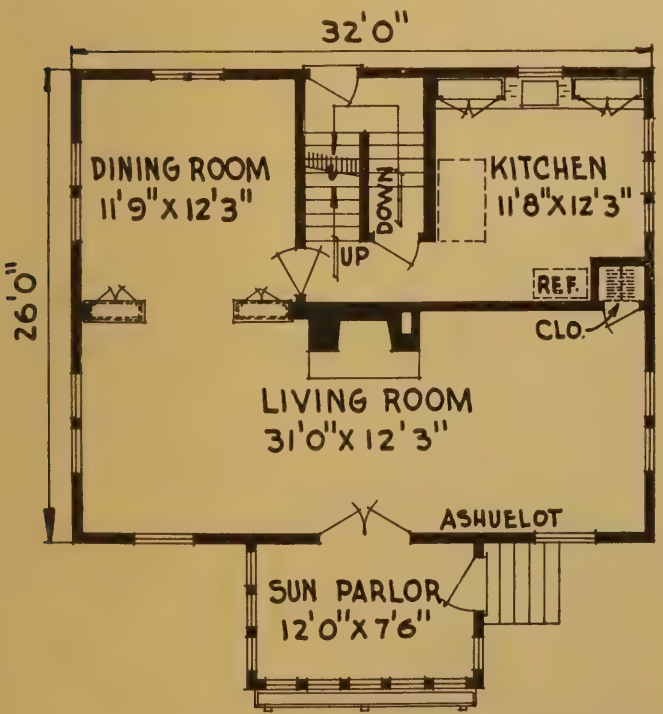


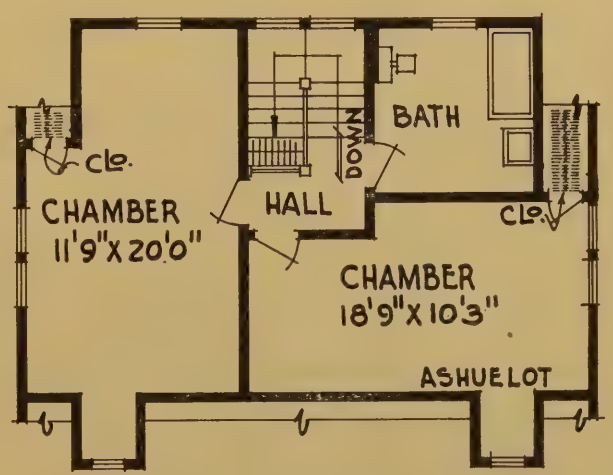
5 Rooms, Bath and Sun Parlor

"The ASHUELOT"

32 Ft. Wide x 26 Ft. Deep

THE average man seeks in a home an attractive exterior and a comfortable inside. When you find these qualities and in addition an individuality, both in design and in arrangement, it is time to build.





SIZES:

Extreme Width	35' 0"
Extreme Depth	35' 6"
First Floor Ceiling (Sun Parlor 14' 3") Balance	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

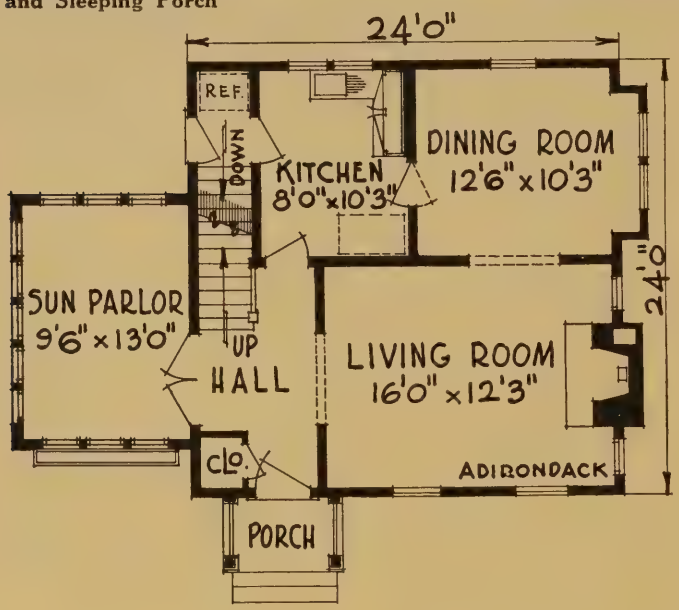
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



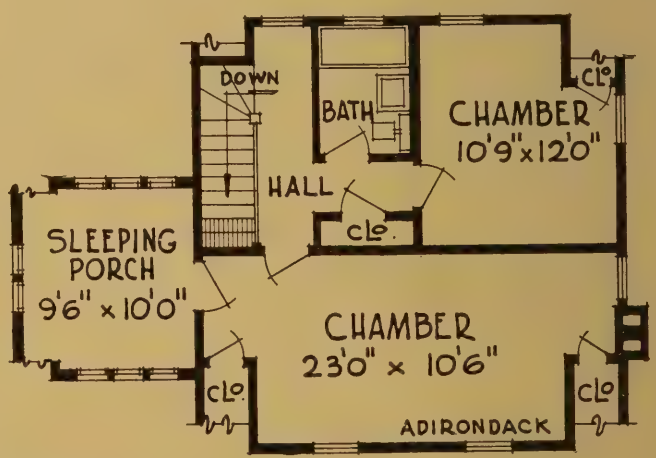
5 Rooms, Bath, Sun Parlor and Sleeping Porch

"The ADIRONDACK"

34 Ft. Wide x 24 Ft. Deep



THOUGH it is the old Dutch Colonial Type the "Adirondack" is individual in appearance. The sun parlor with the sleeping porch above have a decorative as well as practical value. Best of all the "Adirondack" costs very little to build.



SIZES:

Extreme Width	35' 6"
Extreme Depth	32' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

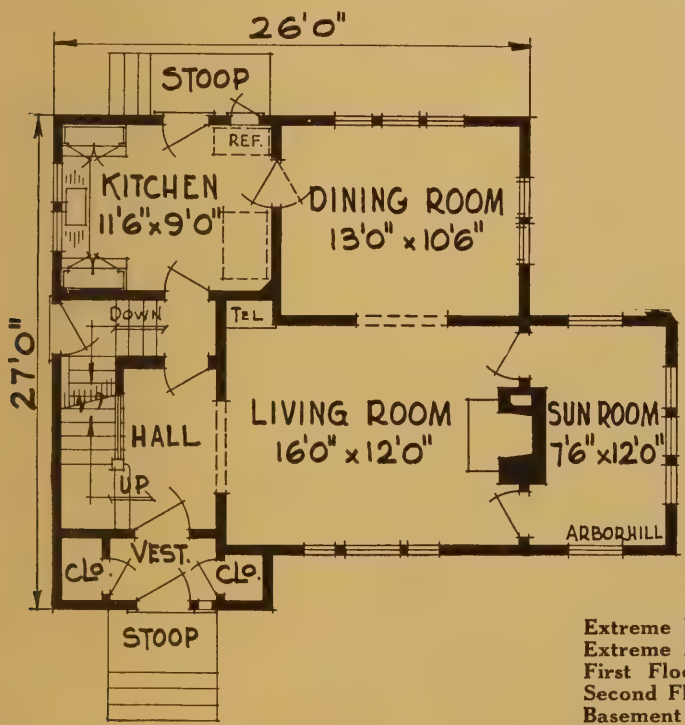


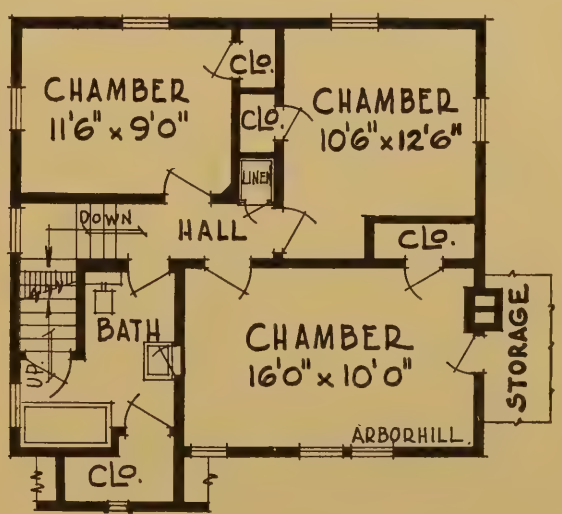
6 Rooms, Bath and Sun Room

"The ARBORHILL"

26 Ft. Wide x 27 Ft. Deep

A SHINGLED house with a particularly welcoming entrance. The position of the fireplace between the two doors leading to the sun room is effective. An abundance of windows provide the maximum sunlight and air.





SIZES:

Extreme Width	35' 0"
Extreme Depth	36' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) Blank **Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

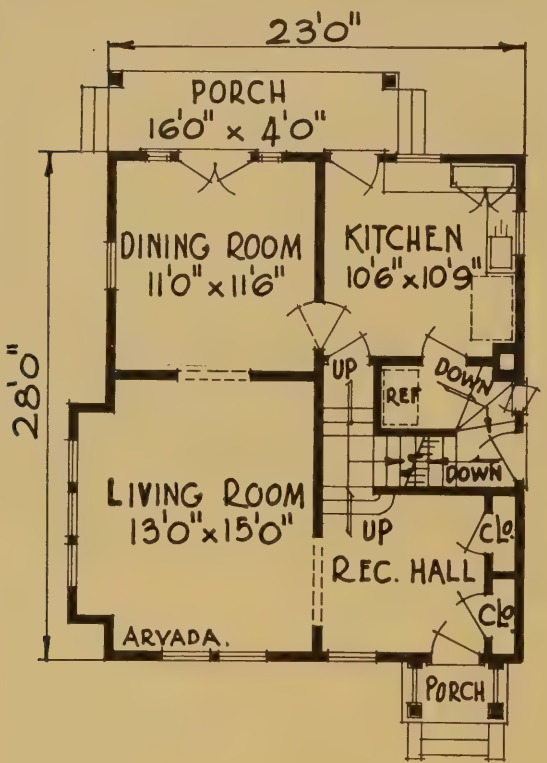
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



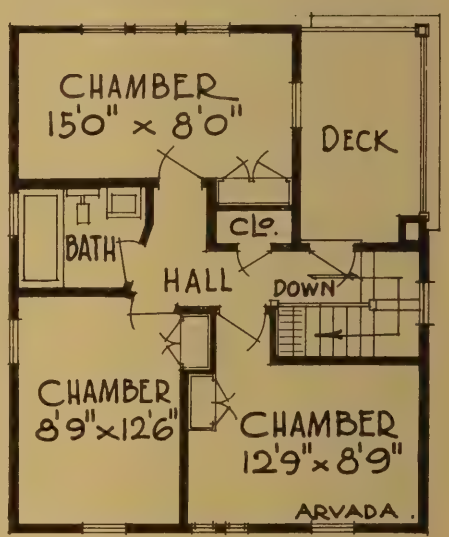
6 Rooms and Bath

"The ARVADA"

23 Ft. Wide x 28 Ft. Deep



DEMONSTRATING still another possibility of the adaptable Dutch Colonial Style. The roof angles are appropriate, and interesting. The floor plan reveals first a large reception hall with two closets, and then the wide living and dining rooms. The rear porch is of both practical and pleasurable value.



SIZES:

Extreme Width	28' 3"
Extreme Depth	39' 3"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

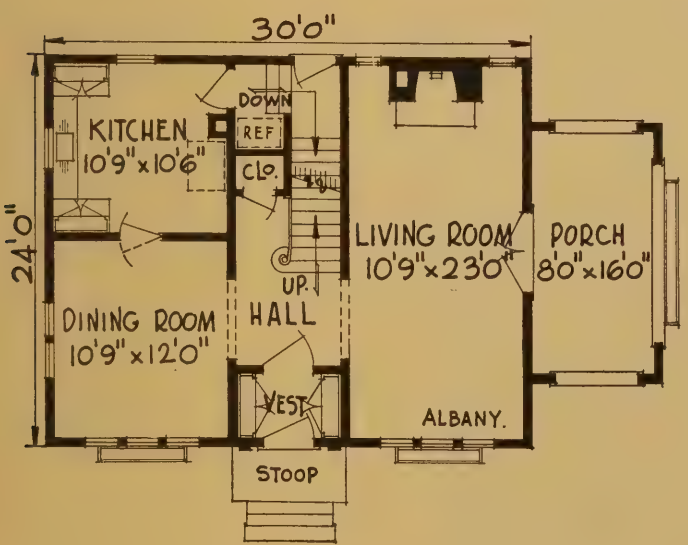
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



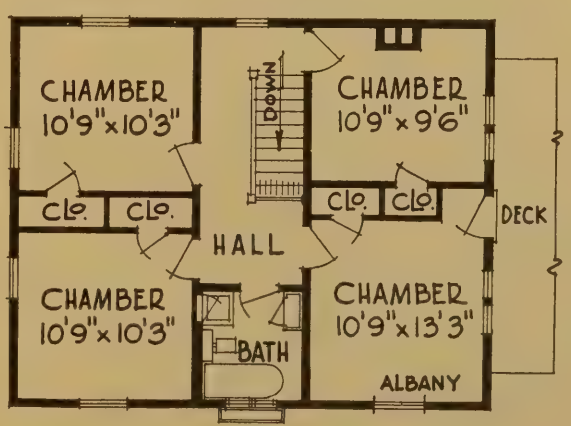
7 Rooms and Bath

"The ALBANY"

30 Ft. Wide x 24 Ft. Deep



THE "Albany" at once creates the desire to own it. Of simple lines enhanced by white trim and shutters effuses an air of hominess. The square shape permits a practical distribution of rooms with no waste space. A home the occupants will become immensely attached to.



SIZES:

Extreme Width	40' 2"
Extreme Depth	31' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

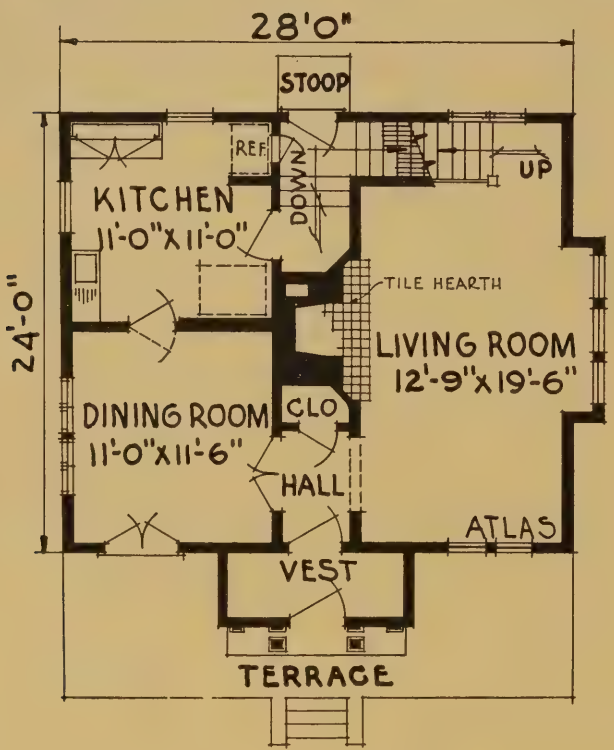
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



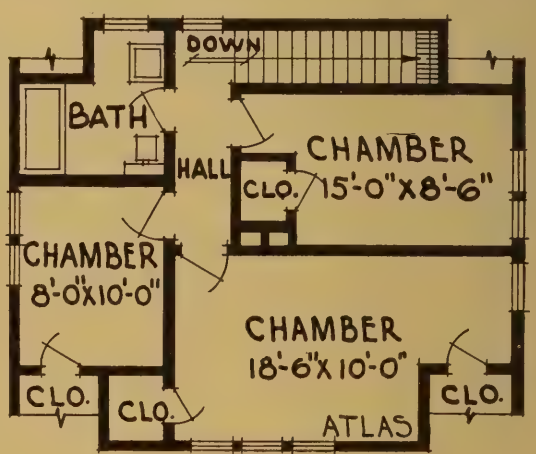
6 Rooms and Bath

"The ATLAS"

28 Ft. Wide x 24 Ft. Deep



THE effective colonial entrance, and the sloping terrace set the "Atlas" off to good advantage. The recessed fireplace with hearth in the living room gives an especial homey atmosphere. The stairway out of the living room is at once practical and effective.



SIZES:

Extreme Width	30′ 6″
Extreme Depth	37′ 6″
First Floor Ceiling	8′ 8″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

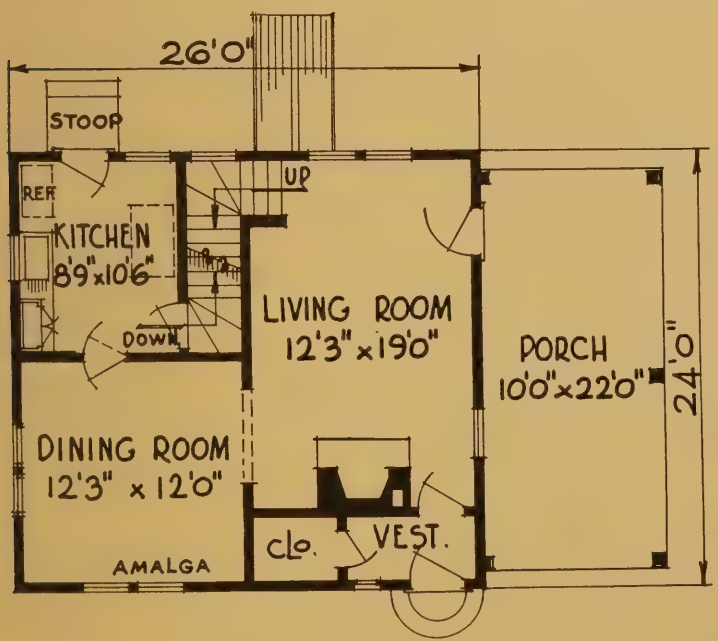
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



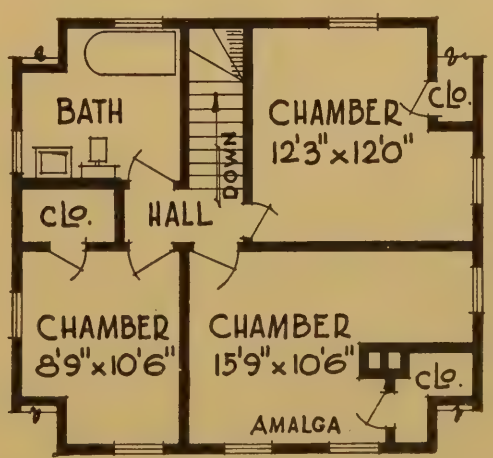
6 Rooms and Bath

"The AMALGA"

26 Ft. Wide x 24 Ft. Deep



A GEM of a Colonial home flanked by a wide lazy porch. The use of wide siding for the exterior is both practical and pleasing. A convenient vestibule, a large bath, and ample closet space are among the many living advantages found inside.



SIZES:

Extreme Width	31′ 0″
Extreme Depth	34′ 6″
First Floor Ceiling	9′ 0″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for Above Design..... $20.00
One (1) Classified Guide (16 Pages) for listing all Material Items.....
One (1) Set of Specifications and Two (2) Blank Contract Forms.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

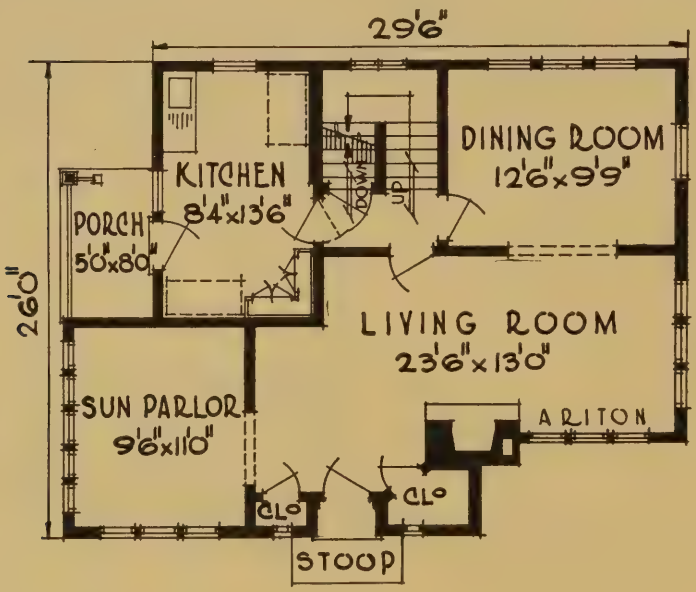
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



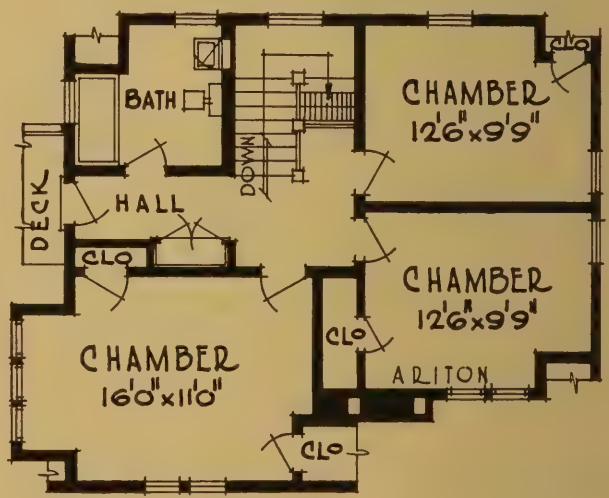
6 Rooms, Bath and Sun Parlor

"The ARITON"

29 Ft. 6 In. Wide x 26 Ft. Deep



STUCCO and shingles set in perfect contrast. The tall stuccoed chimney gives further interest to the outside. The floor plans especially of the living rooms, speaks for itself. The second floor is convenient with large rooms and plenty of closet space.



SIZES:

Extreme Width	34′ 9″
Extreme Depth	29′ 6″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

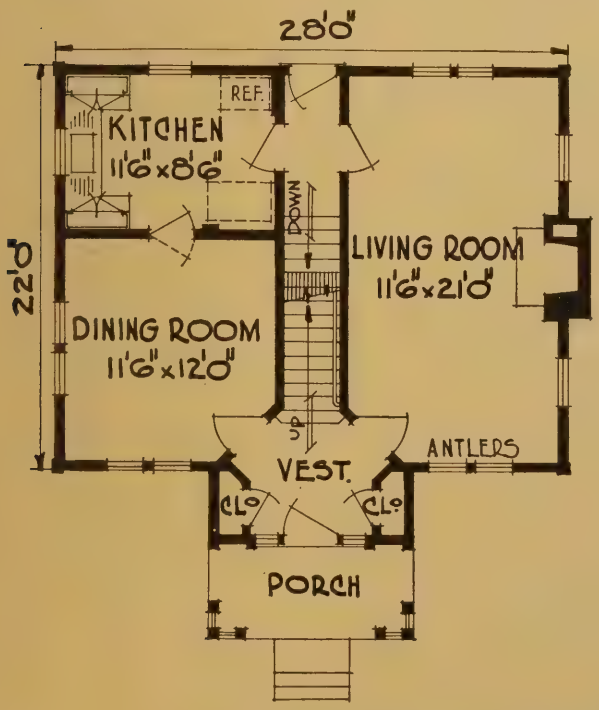


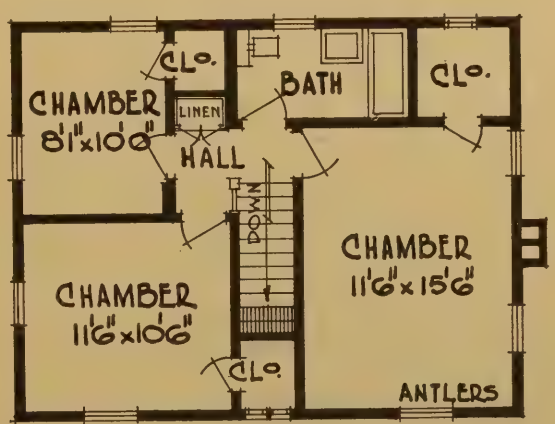
6 Rooms and Bath

"The ANTLERS"

28 Ft. Wide x 22 Ft. Deep

A MAJESTIC dwelling in frame. The unusual porch and entrance cannot fail to impress the guest. The long sweep of the living room carries out the majestic note created by the exterior.





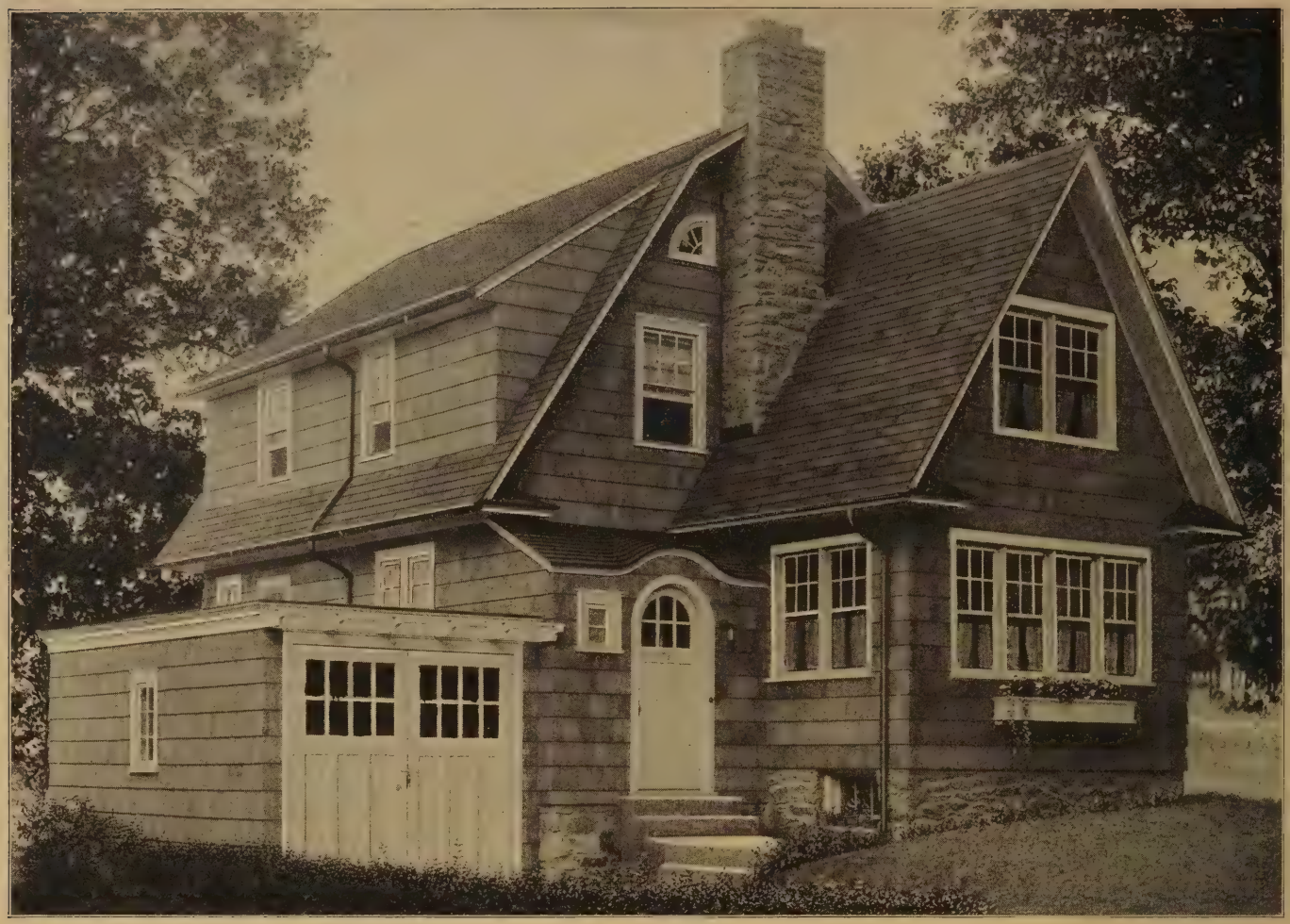
SIZES:

Extreme Width	32' 8"
Extreme Depth	37' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design $20.00
One (1) Classified Guide (16 Pages) for listing all Material Items .....
One (1) Set of Specifications and Two (2) Blank Contract Forms .....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

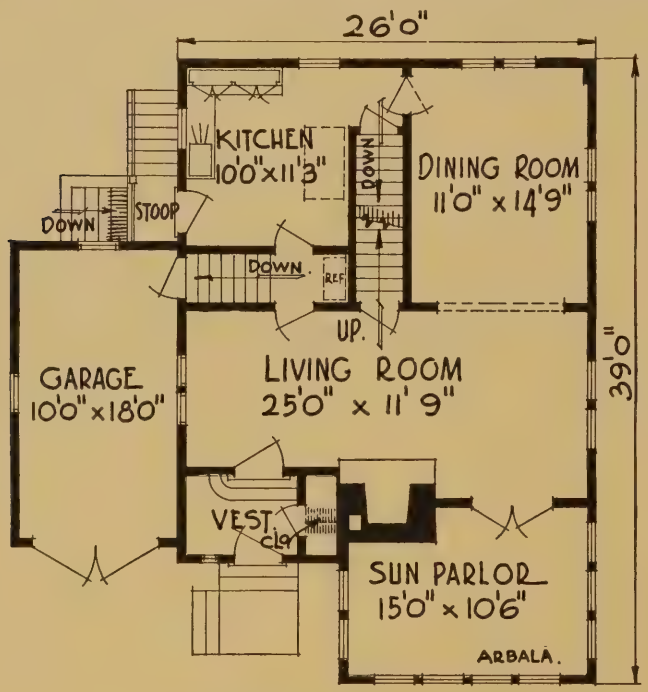


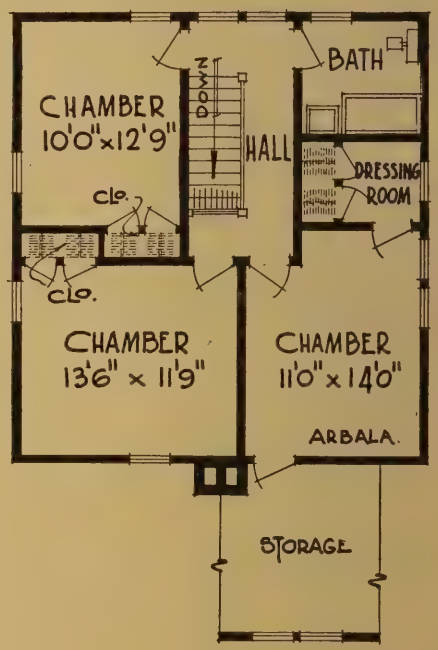
6 Rooms, Bath, Sun Parlor
Dressing Room and Garage

"The ARBALA"

House—26 Ft. Wide x 39 Ft. Deep
Garage—11 Ft. Wide x 19 Ft. Deep

A HOME of the Dutch Colonial type challenging the eye with its many interesting roof lines. Further features, such as the entrance and adjoining garage arouse an intelligent curiosity. Sun parlor with storage room above, large rooms, space saving closets are other assets of the "Arbala"





SIZES:

Extreme Width	38' 6"
Extreme Depth	42' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

"Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

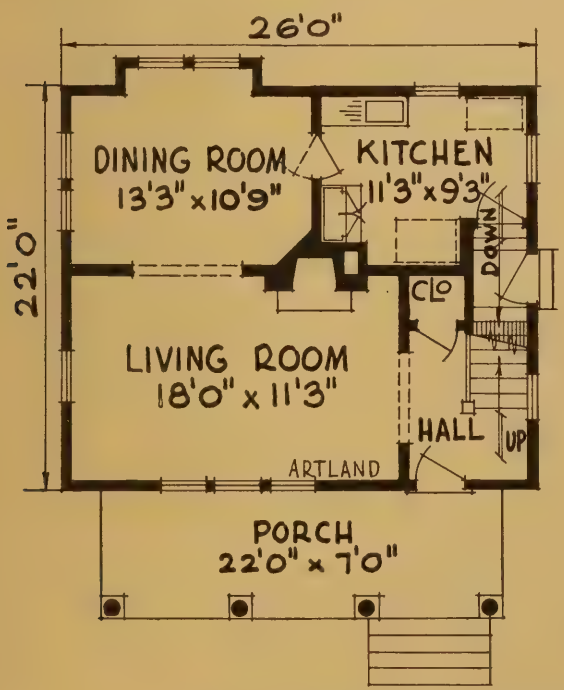


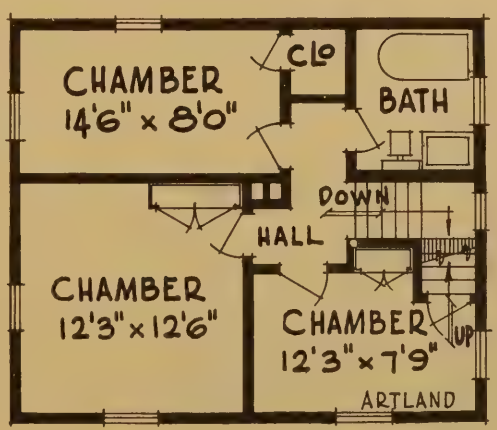
6 Rooms and Bath

"The ARTLAND"

26 Ft. Wide x 22 Ft. Deep

A HOUSE of regular design and room distribution. The four large colonial columns and the expansive front porch set the house off perfectly. Comfortable because simple.





SIZES:

Extreme Width	29′ 0″
Extreme Depth	35′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

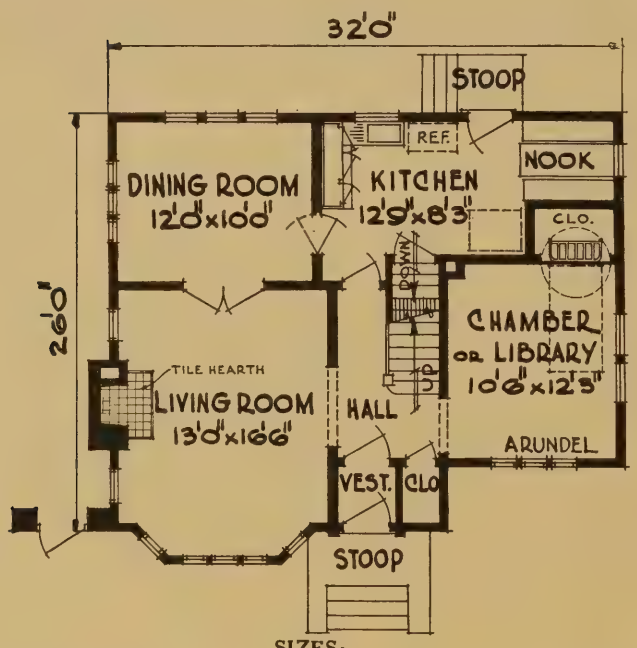
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



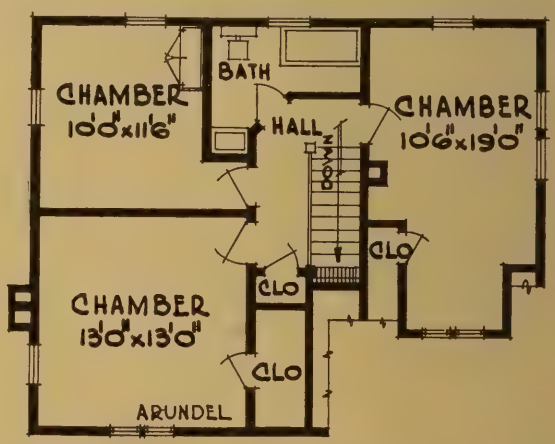
7 Rooms, Bath and Dining Nook

"The ARUNDEL"

32 Ft. Wide x 26 Ft. Deep



ONE'S eye travels from the arbor gate, thence, to the massive bay and finally rests on the effective colonial entrance. The small wing on the right serves to complete the picture. The disappearing bed in the downstairs library is a feature to be appreciated.



SIZES:

Extreme Width	39' 6"
Extreme Depth	36' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

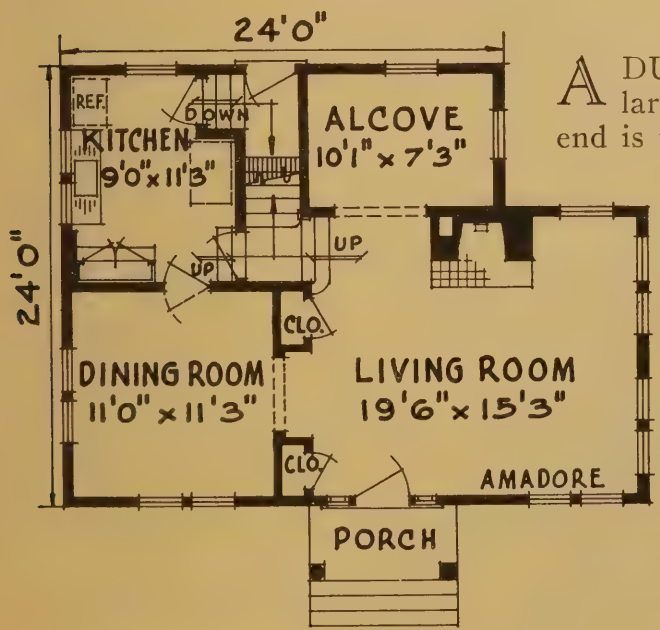
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



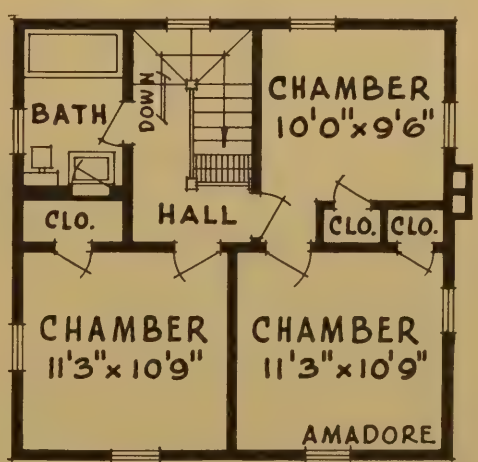
6 Rooms, Bath and Alcove

"The AMADORE"

24 Ft. Wide x 24 Ft. Deep



A DUTCH Colonial home of approved style. The large living room with a sun parlor effect at one end is unusually attractive. Three chambers upstairs with ready access to the bath make this home very livable for the medium sized family.



SIZES:

Extreme Width	37' 0"
Extreme Depth	33' 0
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

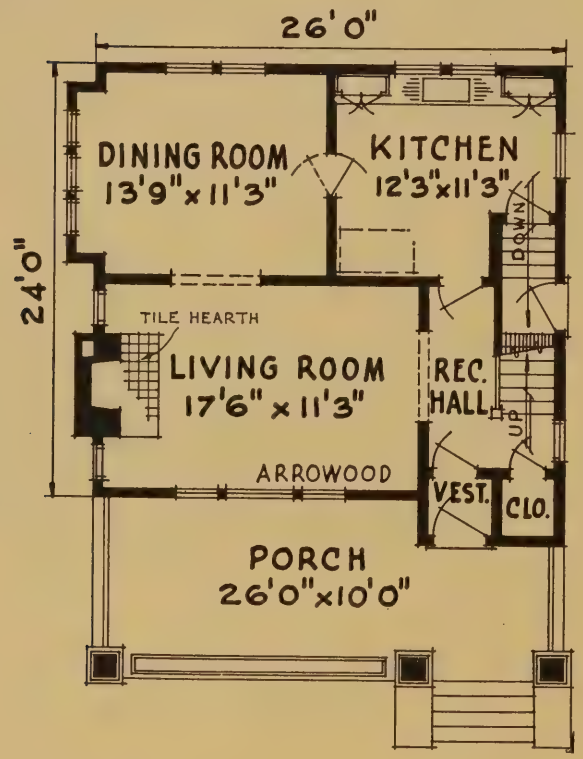
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



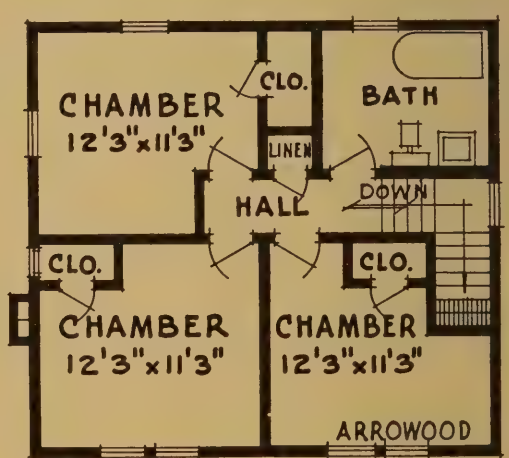
6 Rooms and Bath

"The ARROWOOD"

26 Ft. Wide x 24 Ft. Deep



A THOUGHTFUL blend of siding, shingles, and brick, topped by a tile roof. The "Arrowwood" assures comfort and convenience, beauty and family happiness. One has only to look at the tile-hearthed fireplace to be convinced of this.



SIZES:

Extreme Width	32′ 0″
Extreme Depth	39′ 6″
First Floor Ceiling	9′ 0″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

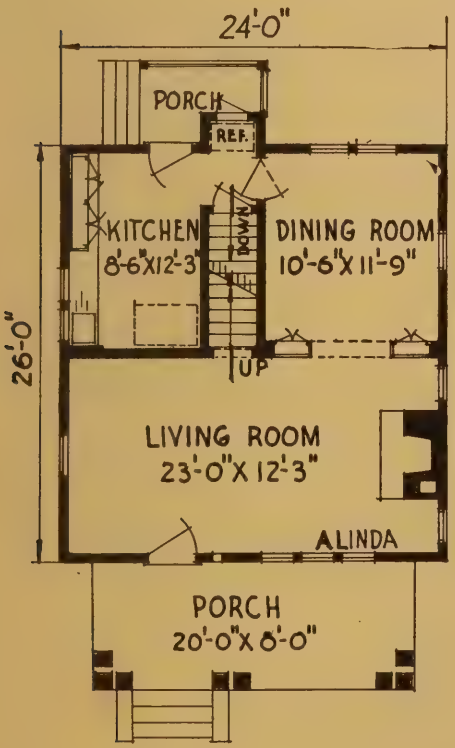
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



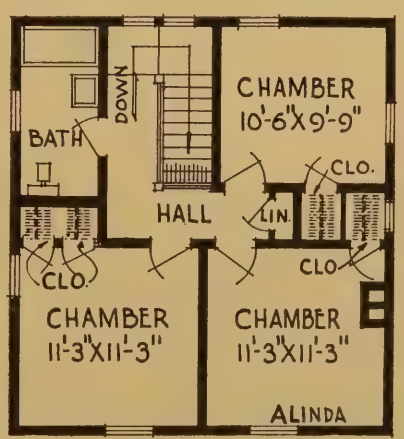
6 Rooms and Bath

"The ALINDA"

24 Ft. Wide x 26 Ft. Deep



FROM the moment you enter the door you are captivated with the "Alinda." You step directly into the expansive living room cheerily relieved by the big fireplace. Then you notice the plaster arch with built-in china cases opening into the dining room. While the outside is attractive, it does not begin to convey the tidiness and comfort found within.



SIZES:

Extreme Width	29' 0"
Extreme Depth	43' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items.
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

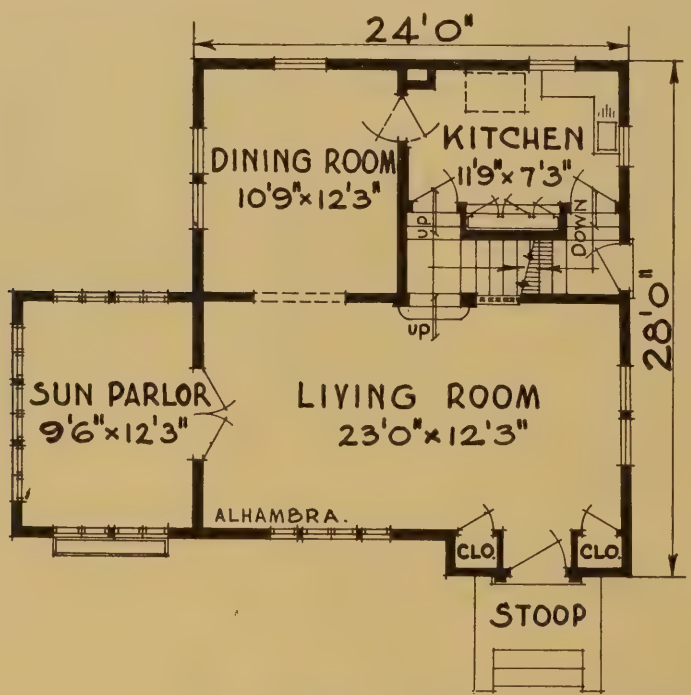


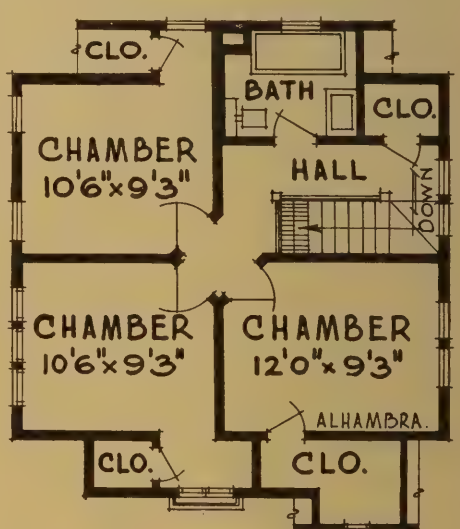
6 Rooms, Bath and Sun Parlor

"The ALHAMBRA"

24 Ft. Wide x 28 Feet Deep

THE long curve of the roof, the position of the windows, and the harmonious exterior lend the "Alhambra" charm and distinction. Inside, the well lighted sun parlor, the large living room and ample closet space are among the comfortable features. A convenient arrangement is the main stairway which is accessible from both kitchen and living room.





SIZES:

Extreme Width	36′ 0″
Extreme Depth	35′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

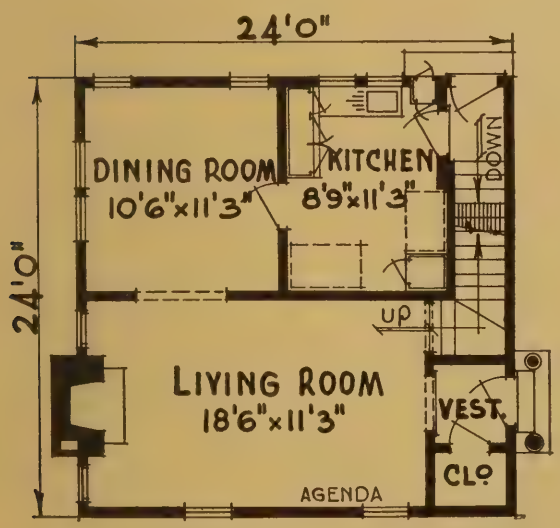
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



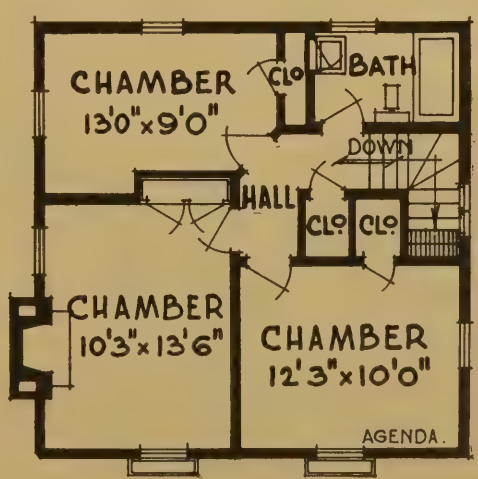
6 Rooms and Bath

"The AGENDA"

24 Ft. Wide x 24 Ft. Deep



THE GREEN shutters lend the proper amount of color to make the "Agenda" a home of beauty. The entrance provides the classical touch. The fireplace in the up-stairs chamber sets the room off perfectly.



SIZES:

Extreme Width	28' 0"
Extreme Depth	28' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

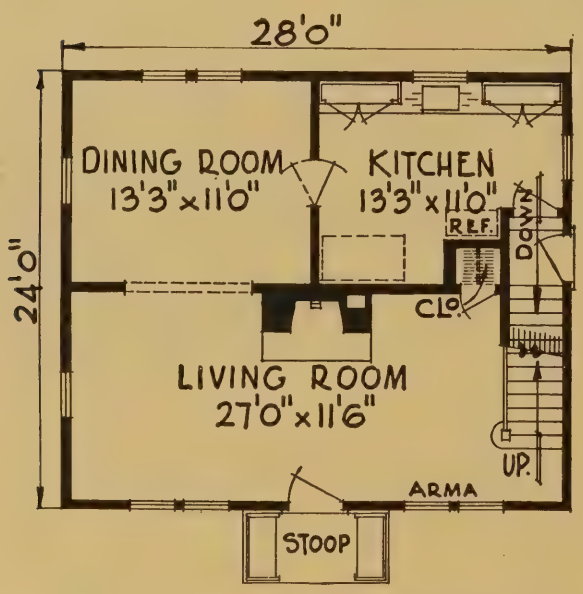


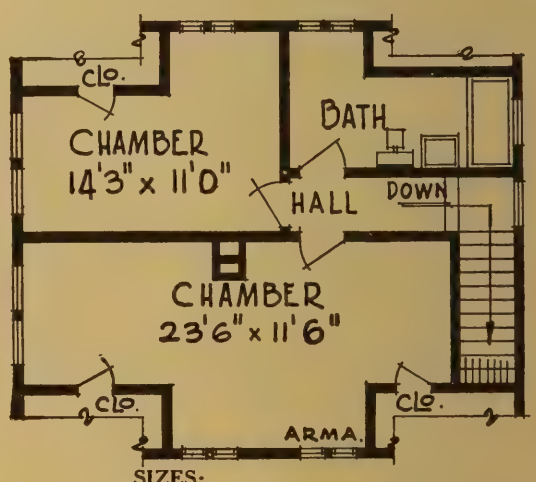
5 Rooms and Bath

"The ARMA"

28 Ft. Wide x 24 Ft. Deep

ARTISTIC in every detail from the seats on stoop, to the big sloping roof. Flower boxes, trellises and shutters, complete the picture. From the moment you step inside, you are taken with the arrangement and airy freedom of the rooms.





SIZES:

Extreme Width	39' 0"
Extreme Depth	30' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

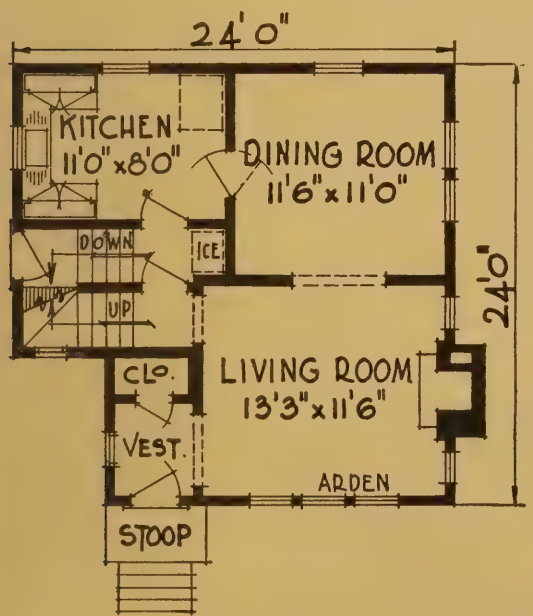
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



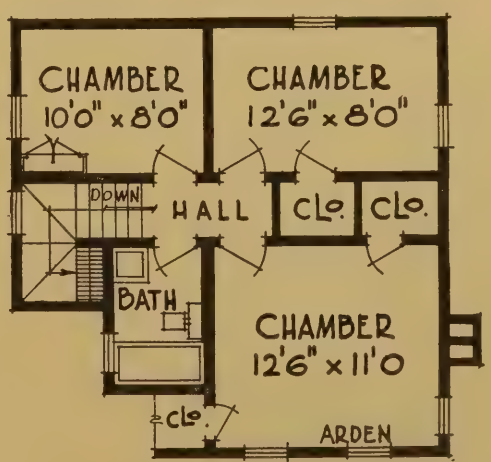
6 Rooms and Bath

"The ARDEN"

24 Ft. Wide x 24 Ft. Deep



A SMALL modern home recalling the early English type. Inside one finds the rooms ample, cozy, and easy to keep. Shutters were never used to a better advantage. The exposed chimney materially adds to its attractiveness.



SIZES:

Extreme Width	27' 0"
Extreme Depth	31' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

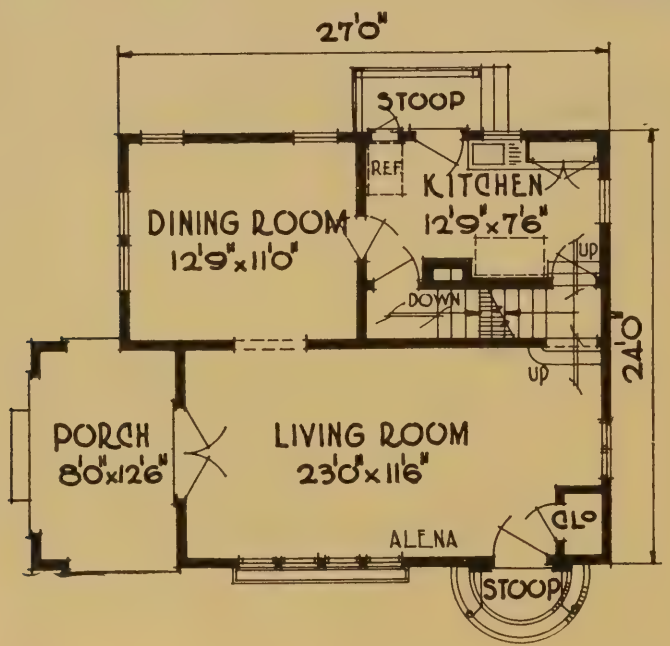
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



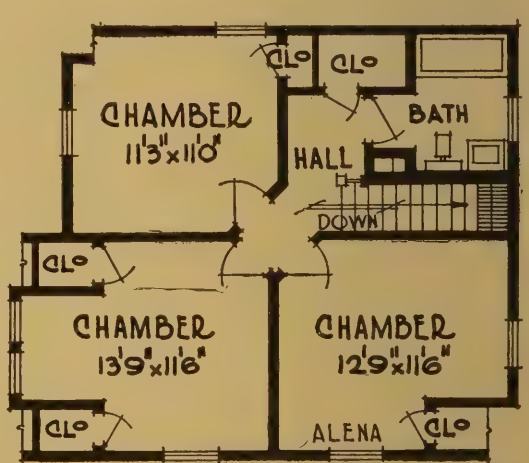
6 Rooms and Bath

"The ALENA"

27 Ft. Wide x 24 Ft. Deep



SHUTTERS on shingles make a uniquely pleasing combination here. The circular tread stoop and iron railing make a charming entrance. Through the expansive living room, we pass on to the light airy dining room. There are no less than five clothes closets upstairs.



SIZES:

Extreme Width	35′ 6″
Extreme Depth	32′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

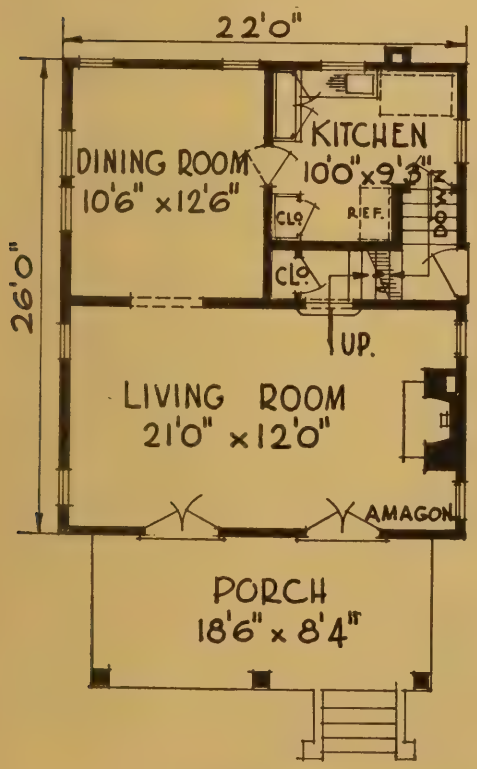
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



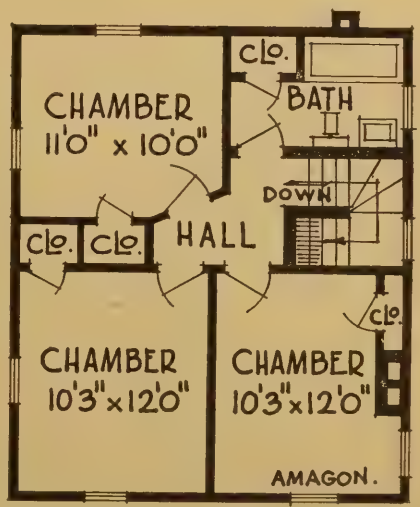
6 Rooms and Bath

"The AMAGON"

22 Ft. Wide x 26 Ft. Deep



A HOME of dazzling whiteness, with occasional shingle decoration to give a touch of color. Very inexpensive to build, yet having all the advantages of the best homes. The kitchen with its cabinets and closet, will be a perpetual delight to the housewife.



SIZES:

Extreme Width	26' 6"
Extreme Depth	40' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

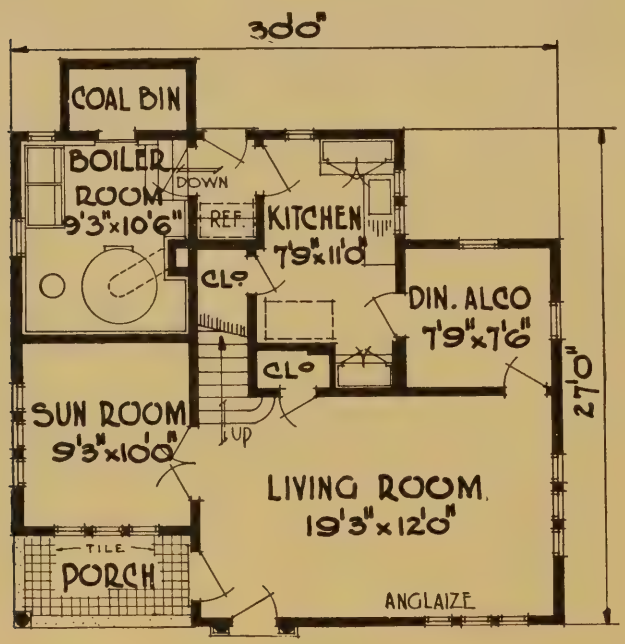
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



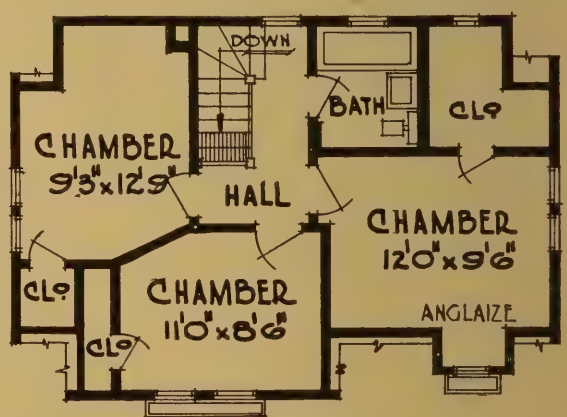
6 Rooms, Bath, Sun Parlor and Boiler Room

"The ANGLAIZE"

30 Ft. Wide x 27 Ft. Deep



A PLEASING study in roof angles. The recessed porch is unusual and very effectively designed. The boiler room in the rear supplants the basement and accomplishes all its functions, such as washing, heating and coal storage.



SIZES:

Extreme Width	31′ 9″
Extreme Depth	33′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**..... **$20.00**

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

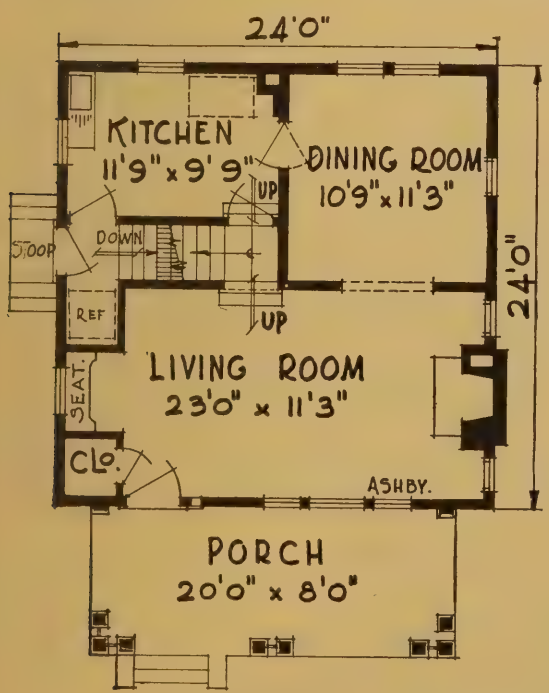


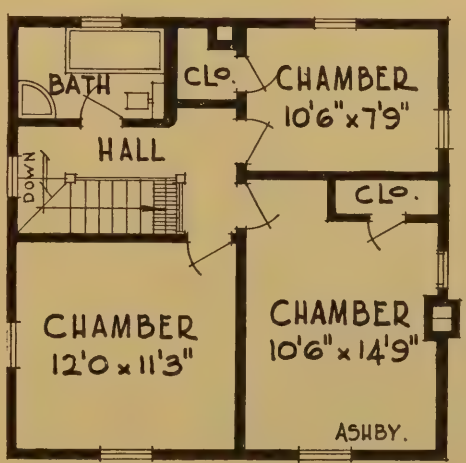
6 Rooms and Bath

"The ASHBY"

24 Ft. Wide x 24 Ft. Deep

A POPULAR home of the square type. The exposed sawed beams make the porch a distinctive one. The seat in the nook of the living room commands the entire sweep of the room. Practical and economical.





SIZES:

Extreme Width	28' 0"
Extreme Depth	36' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

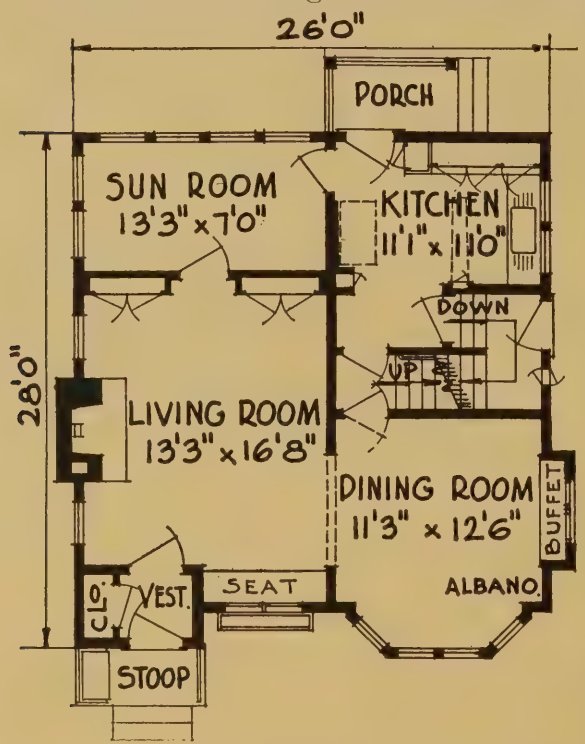


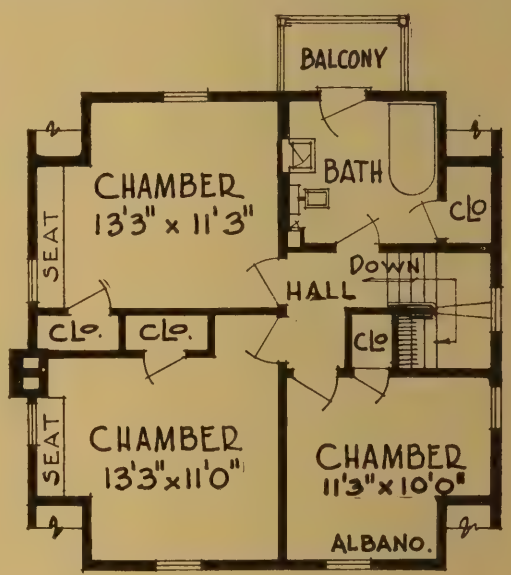
6 Rooms, Bath and Sun Room

"The ALBANO"

26 Ft. Wide x 28 Ft. Deep

THE exterior with all its charm fails to reveal the many advantages of the interior. First there is the living room with a built-in seat, fireplace, bookcase, and adjoining sun room. Then the perfect dining room with its big bay and buffet. The second floor is all to be desired. And in all is remarkably inexpensive to build.





SIZES:

Extreme Width	27' 6"
Extreme Depth	36' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 6"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer,

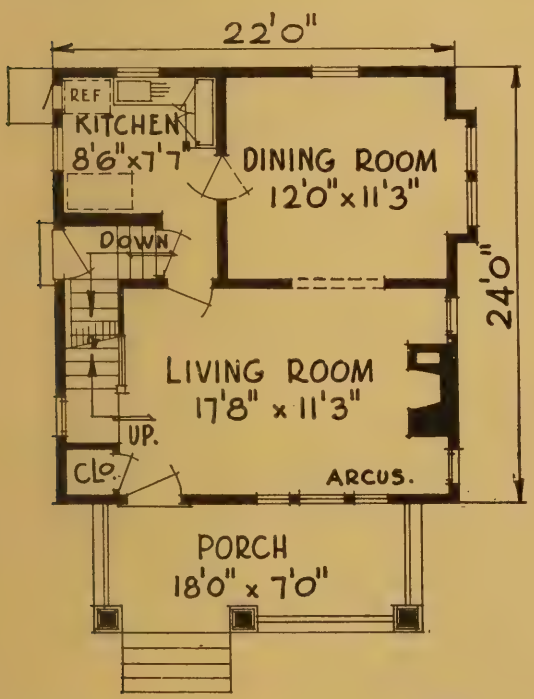
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



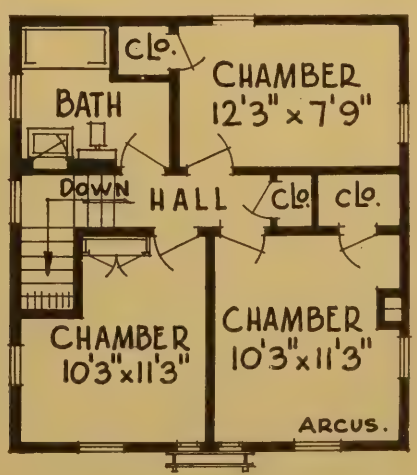
6 Rooms and Bath

"The ARCUS"

22 Ft. Wide x 24 Ft. Deep



THE "Arcus" is a plain home, yet obviously comfortable, and cheerful. The rooms are arranged practically and particularly convenient. Many utilities have also been considered; such as kitchen cabinets, outside icing door, and medicine case, which all aid in making the ideal home.



SIZES:

Extreme Width	26' 6"
Extreme Depth	34' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

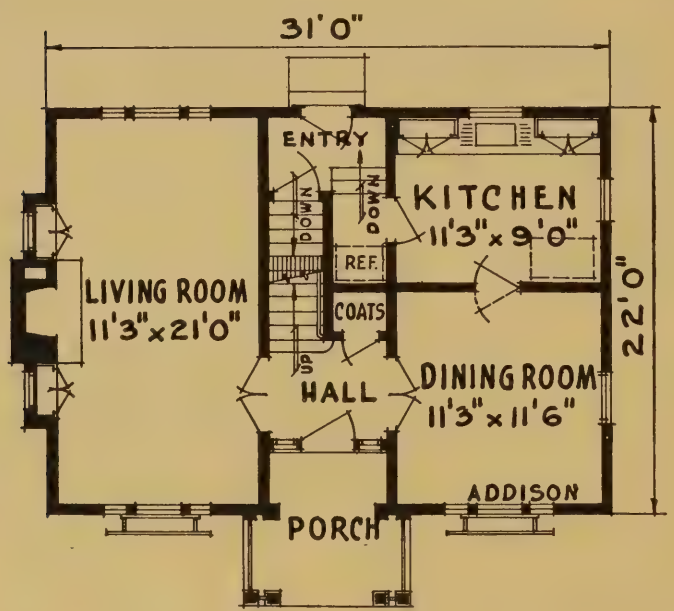
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



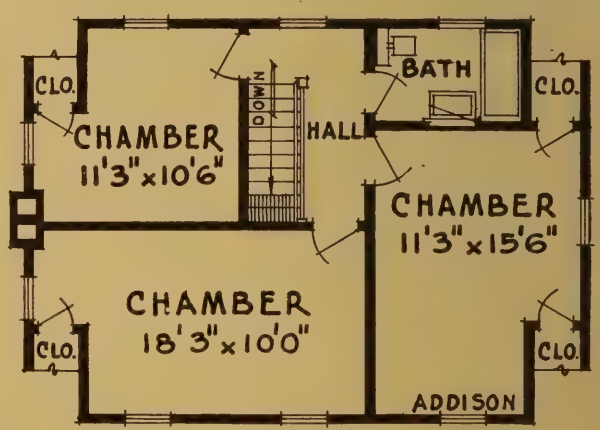
6 Rooms and Bath

"The ADDISON"

31 Ft. Wide x 22 Ft. Deep



POPULAR because of proven comfort and beauty. The trellised front porch lends distinction. Plenty of closet space is always pleasing to the housewife.



SIZES:

Extreme Width	33' 0"
Extreme Depth	31' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

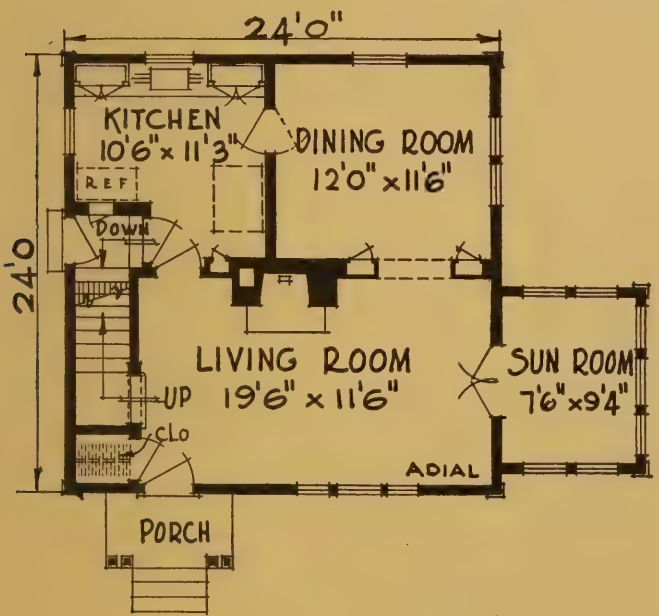
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



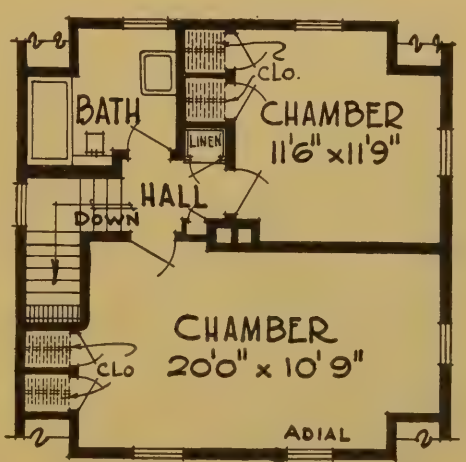
5 Rooms, Bath and Sun Room

"The ADIAL"

24 Ft. Wide x 24 Ft. Deep



THE Dutch Colonial style is advantageously adaptable to the small home. An expansive living room, and a generous sun room are features to be considered. Space saving closet fixtures are employed giving more space and neater closets.



SIZES:

Extreme Width	33' 6"
Extreme Depth	31' 10"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

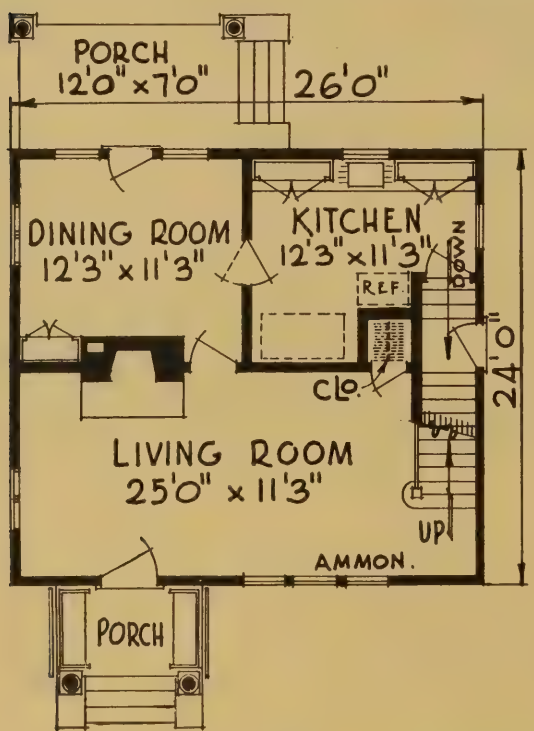


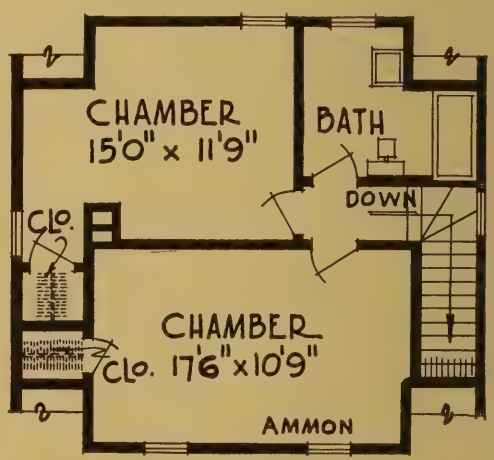
5 Rooms and Bath

"The AMMON"

26 Ft. Wide x 24 Ft. Deep

AN enchanting little home with its broad white siding and ornamental shutters and entrance. The inside is found to be equally fascinating as you wander from room to room. Built-in kitchen cabinets and space saving closet fixtures are conveniences that will please the owner.





SIZES:

Extreme Width	31' 0"
Extreme Depth	40' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**..... **$20.00**

Secure above plans, etc. from your local Lumber or Building Material Dealer.

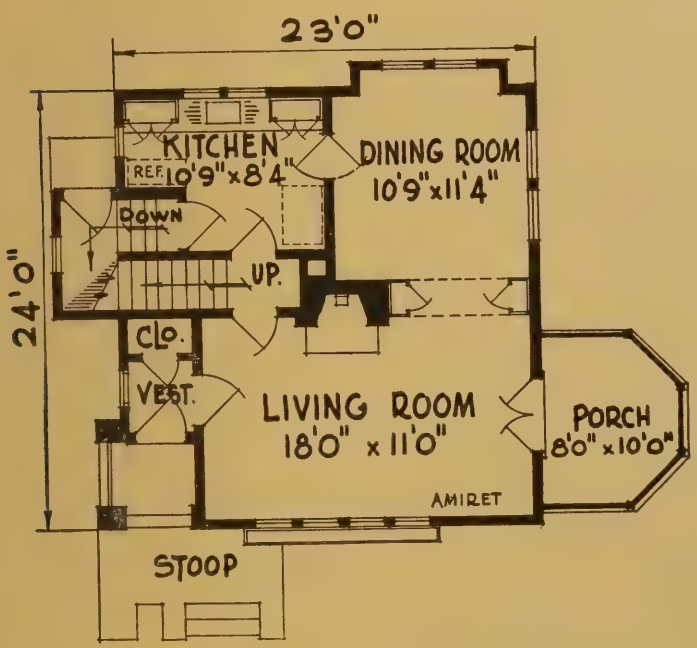
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



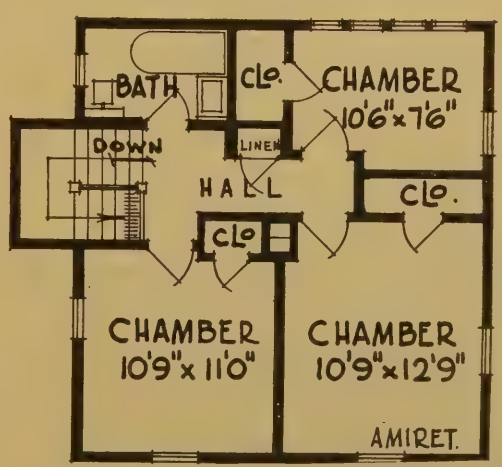
6 Rooms and Bath

"The AMIRET"

23 Ft. Wide x 24 Ft. Deep



AN inviting entrance, and an open side porch make the "Amiret" distinctive. A graceful plaster arch over the opening between the dining room, and living room adds to the beauty of both rooms. Bookcases are below the arch.



SIZES:

Extreme Width	35' 6"
Extreme Depth	32' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

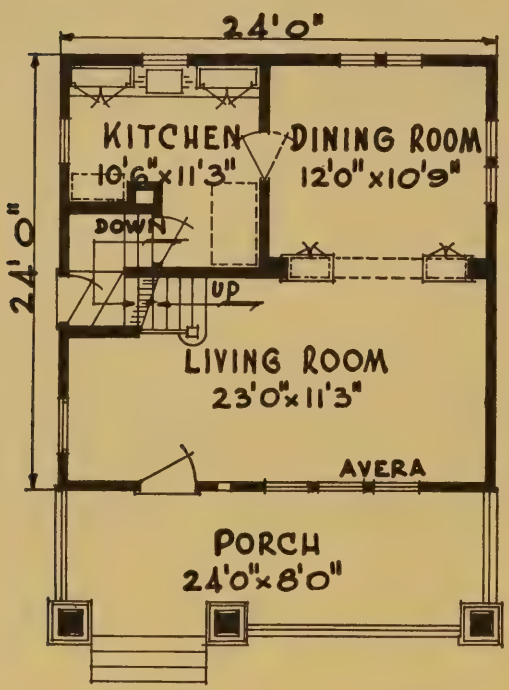
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



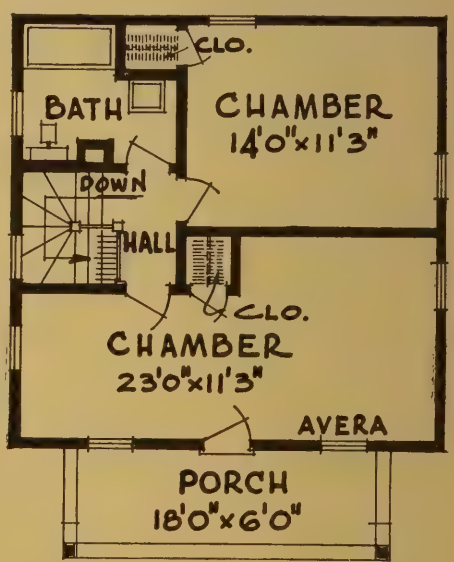
5 Rooms and Bath

"The AVERA"

24 Ft. Wide x 24 Ft. Deep



THE prevalence of homes of this type is due to the combination of attractiveness and servicability which they afford. It is moderate in price and comfortable to live in. Many modern features; such as built-in china cases, mail boxes and space saving closet fixtures will delight the housewife.



SIZES:

Extreme Width	28' 0"
Extreme Depth	36' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

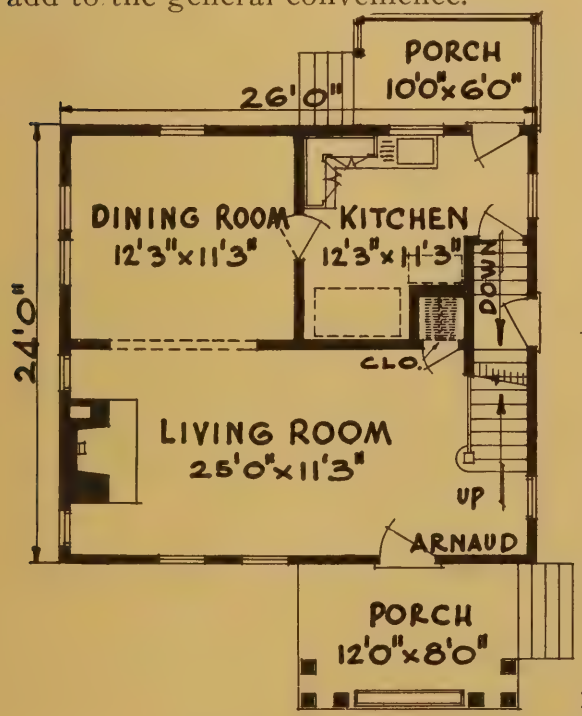


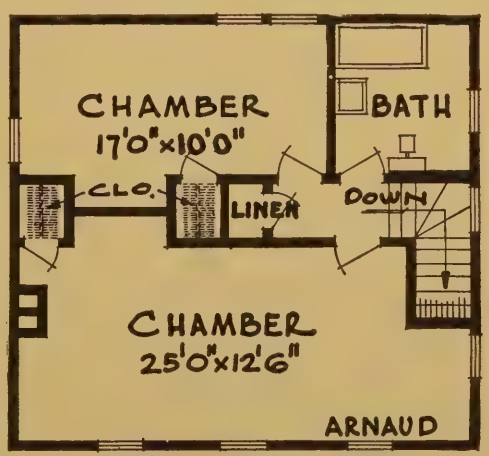
5 Rooms and Bath

"The ARNAUD"

26 Ft. Wide x 24 Ft. Deep

THE Dutch Colonial style again shows its adaptability to the small home. The finished effect of siding and shingles is pleasing and harmonious. There are porches both front and rear. Large rooms are offered by this plan. Space saving closet fixtures are used to add to the general convenience.





SIZES:

Extreme Width	31' 0"
Extreme Depth	41' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

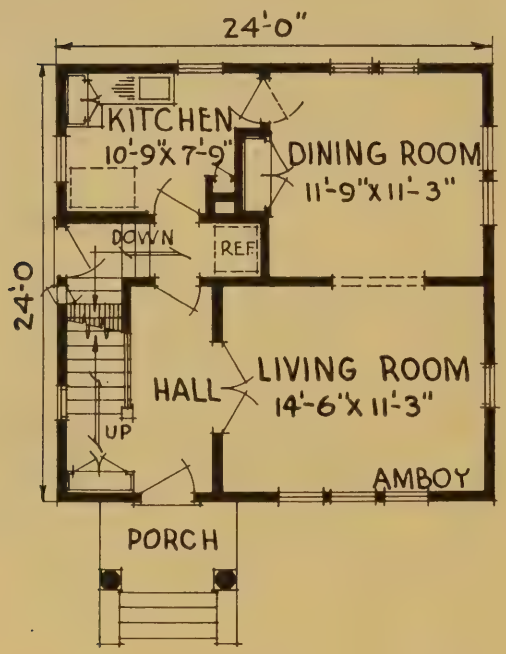
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



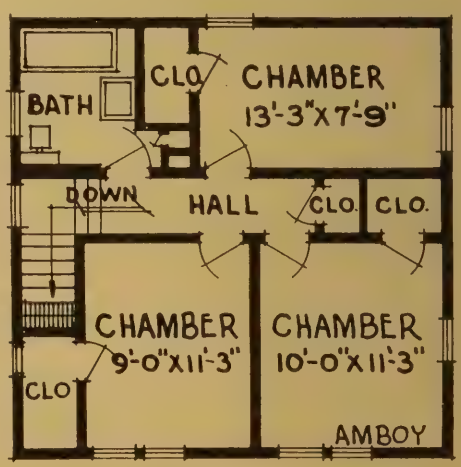
6 Rooms and Bath

"The AMBOY"

24 Ft. Wide x 24 Ft. Deep



A CONVENTIONAL home of proven satisfaction. Moderate in cost, and appealing to look at. The rooms are of ample size. A clothes chute is one of the many modern conveniences.



SIZES:

Extreme Width	27' 0"
Extreme Depth	33' 6
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

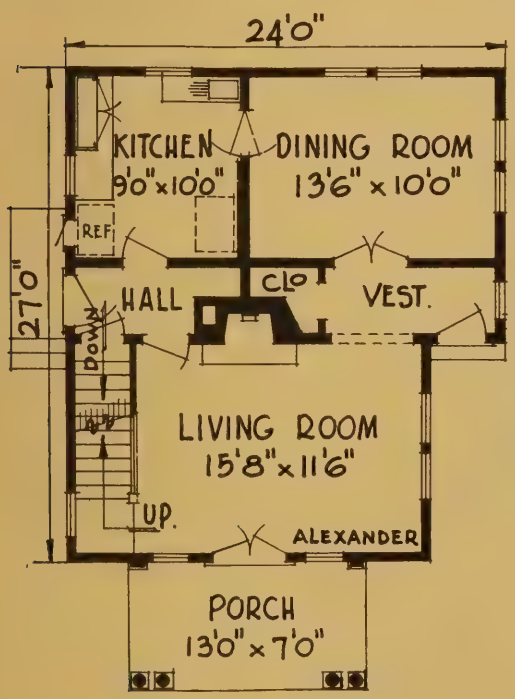
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



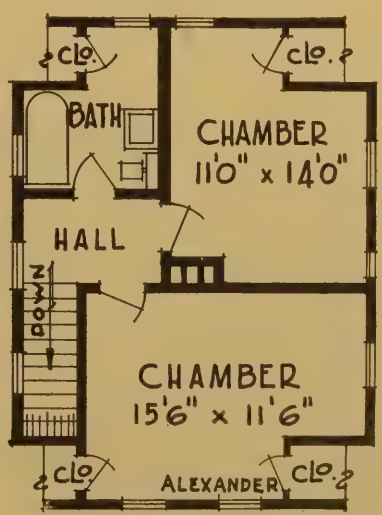
5 Rooms and Bath

"The ALEXANDER"

24 Ft. Wide x 27 Ft. Deep



TRIM in line and light in color, the "Alexander" belongs in "spotless town." The large vestibule separates the living room and dining rooms making each room distinctive. Each chamber is spacious and airy and easily accessible to the bath. There is an outside icing door.



SIZES:

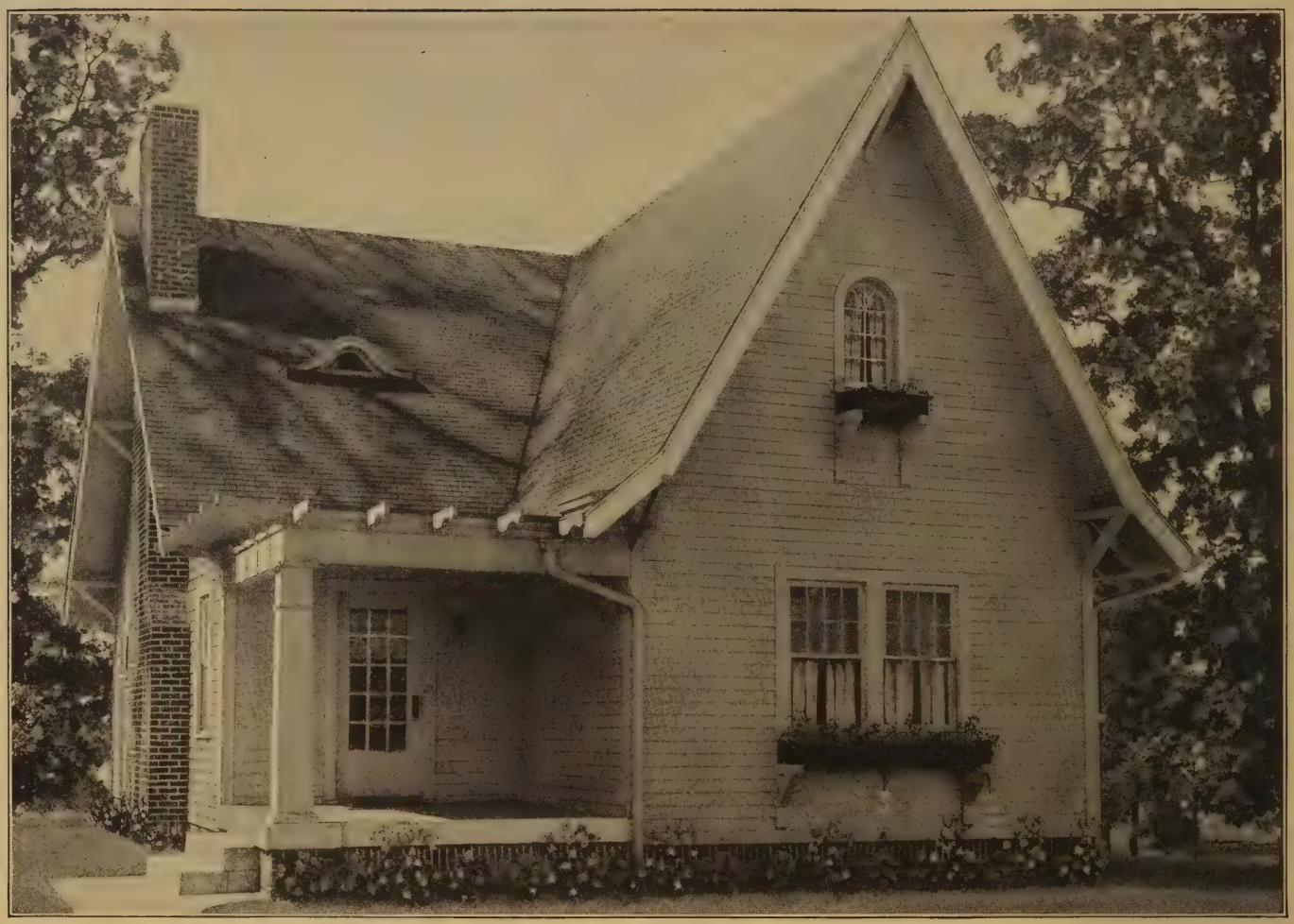
Extreme Width	28′ 6″
Extreme Depth	36′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

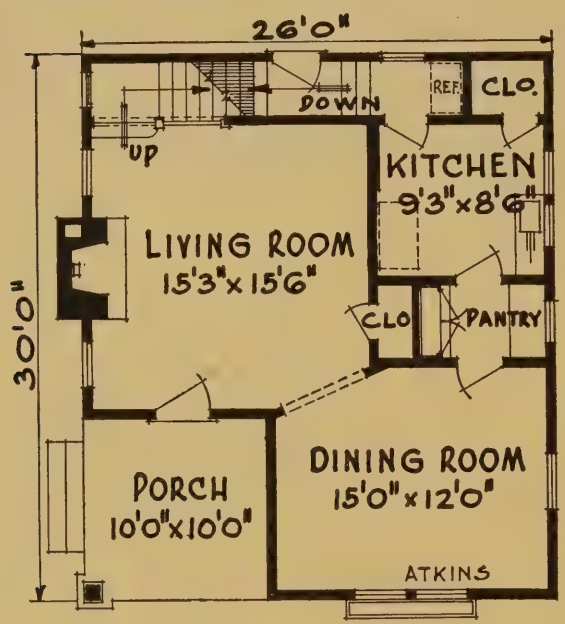
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



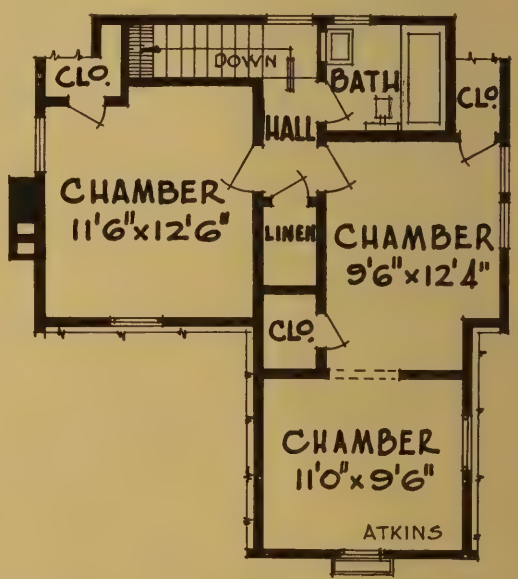
6 Rooms and Bath

"The ATKINS"

26 Ft. Wide x 30 Ft. Deep



DEMONSTRATING the great heights to which the small home can rise. Yet it is inexpensive to build. The floor plan shows the excellence of the arrangement. Plenty of closets are found, one for each chamber and one off each the living room and the kitchen.



SIZES:

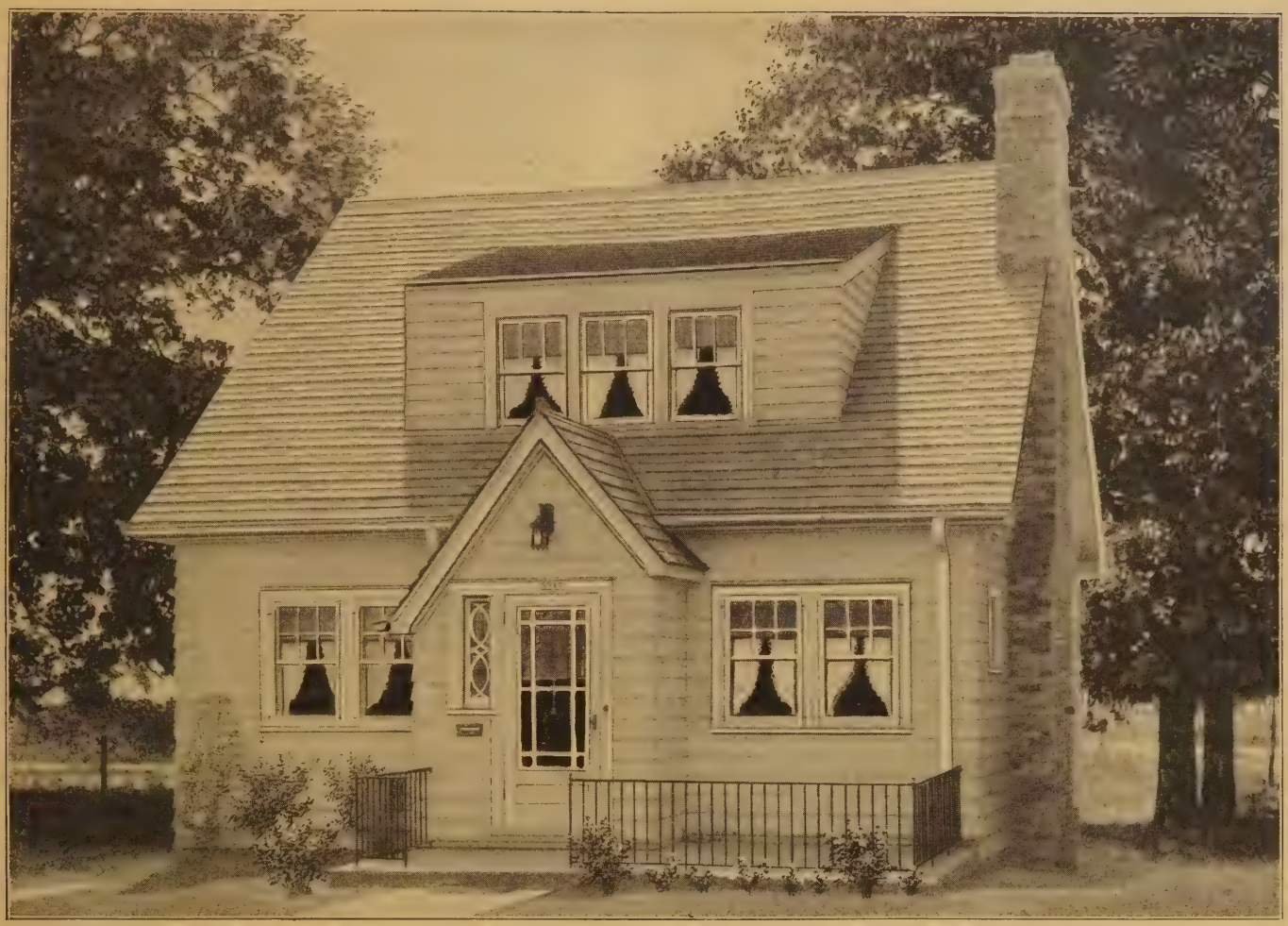
Extreme Width	30' 0"
Extreme Depth	34' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

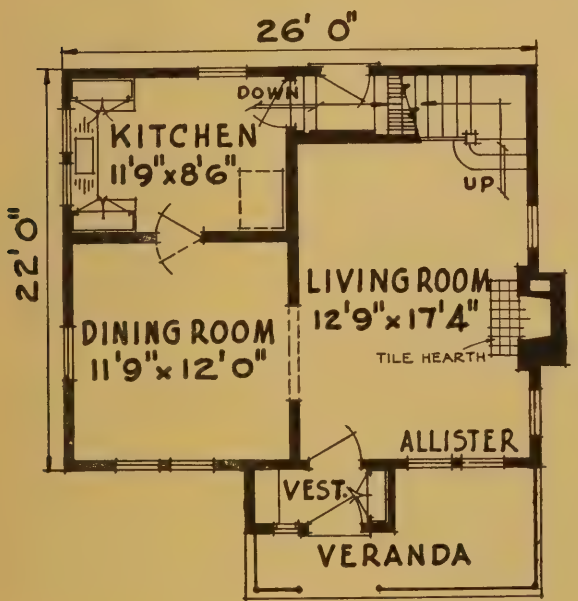
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



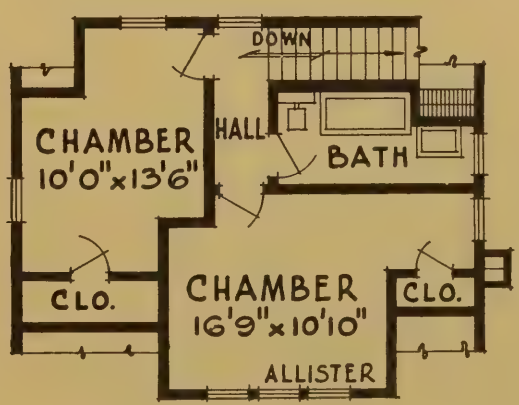
5 Rooms and Bath

"The ALLISTER"

26 Ft. Wide x 22 Ft. Deep



A MODERATE priced home suggesting neatness and compactness. The projecting entrance gives a definite beauty to the exterior. Maximum room space at the minimum cost was foremost in the architect's mind. Perfect for the newly-weds.



SIZES:

Extreme Width	28' 6"
Extreme Depth	30' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

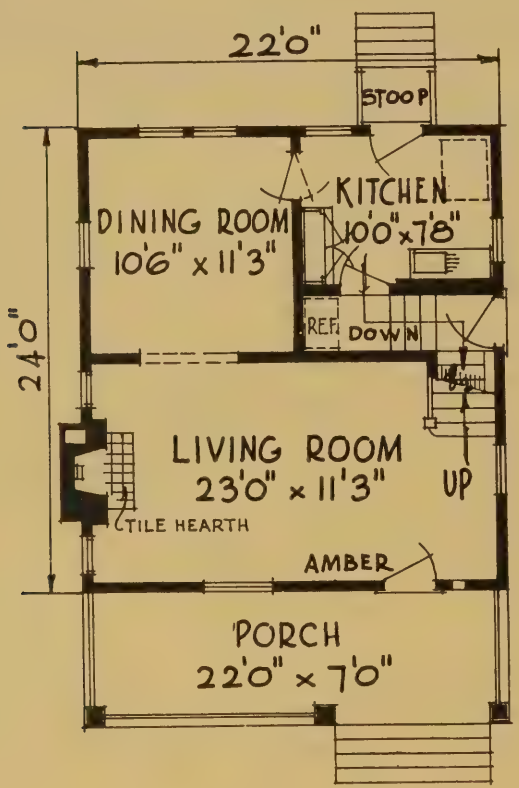
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



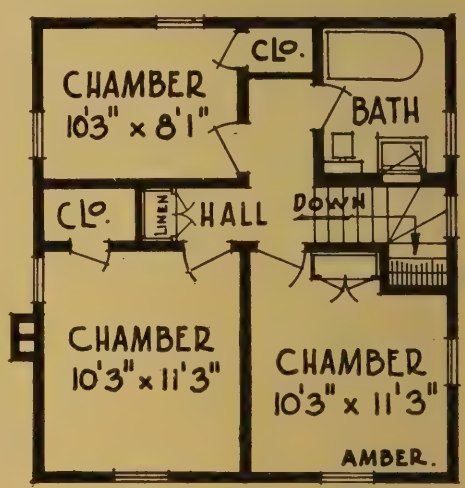
6 Rooms and Bath

"The AMBER"

22 Ft. Wide x 24 Ft. Deep



A HOME of the popular conventional type. The tile-hearthed fireplace, and the stairway opening out of the living room make it a room of interest and charm The rooms upstairs are disposed of attractively and conveniently. Moderate cost.



SIZES:

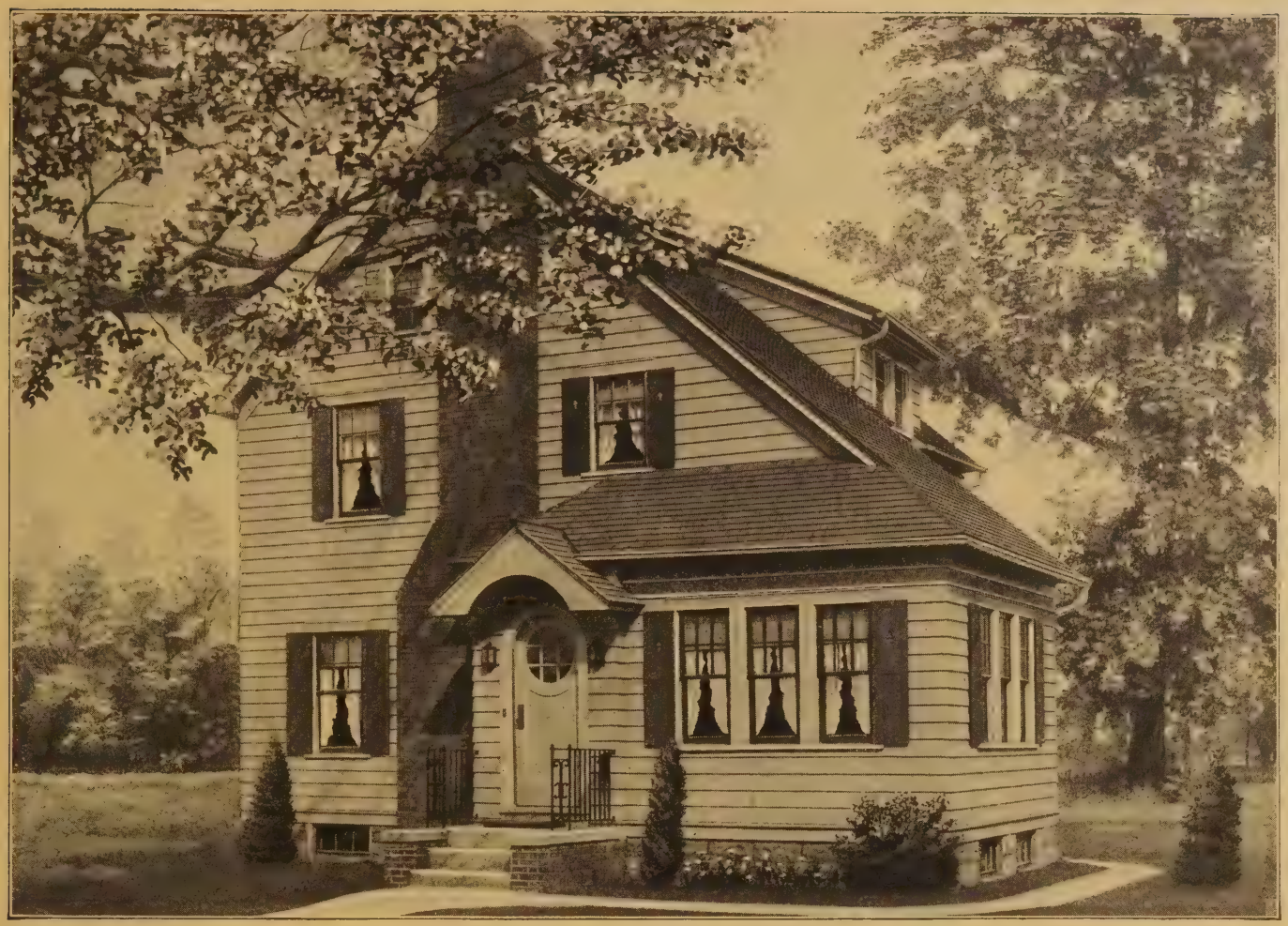
Extreme Width	25' 0"
Extreme Depth	39' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

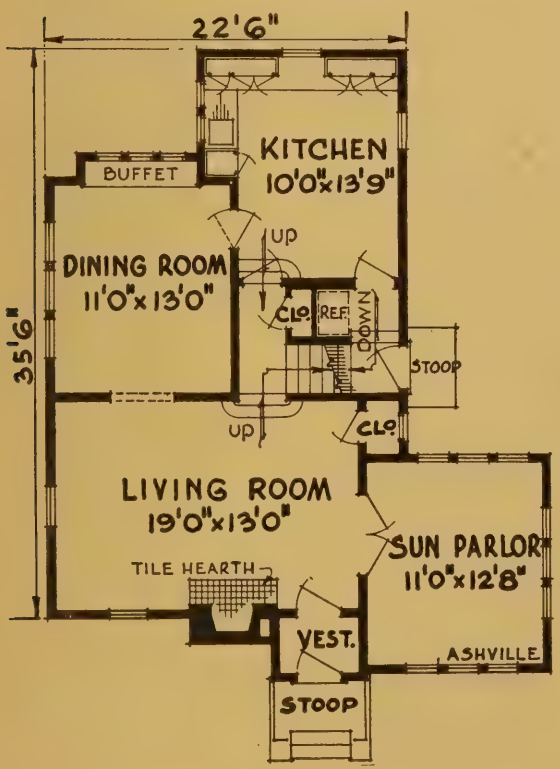
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



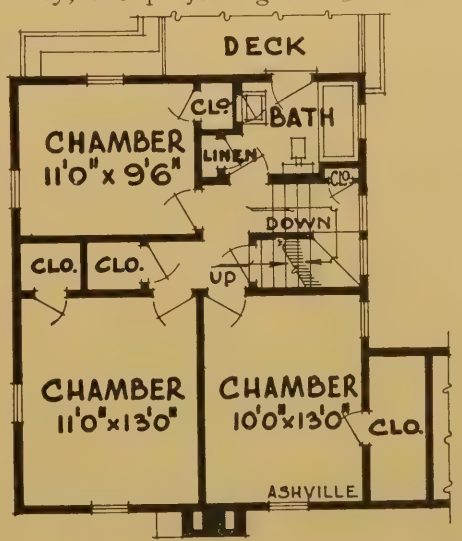
6 Rooms, Bath and Sun Parlor

"The ASHVILLE"

22 Ft. 6 In. Wide x 35 Ft. 6 In. Deep



THE "Ashville" presents a very interesting exterior. The entrance, the tall chimney, the projecting sun room all make it unusual and attractive. All the rooms are large and comfortable. Many thoughtful features are present; such as kitchen cabinets, a buffet in the dining room, and a linen closet.



SIZES:

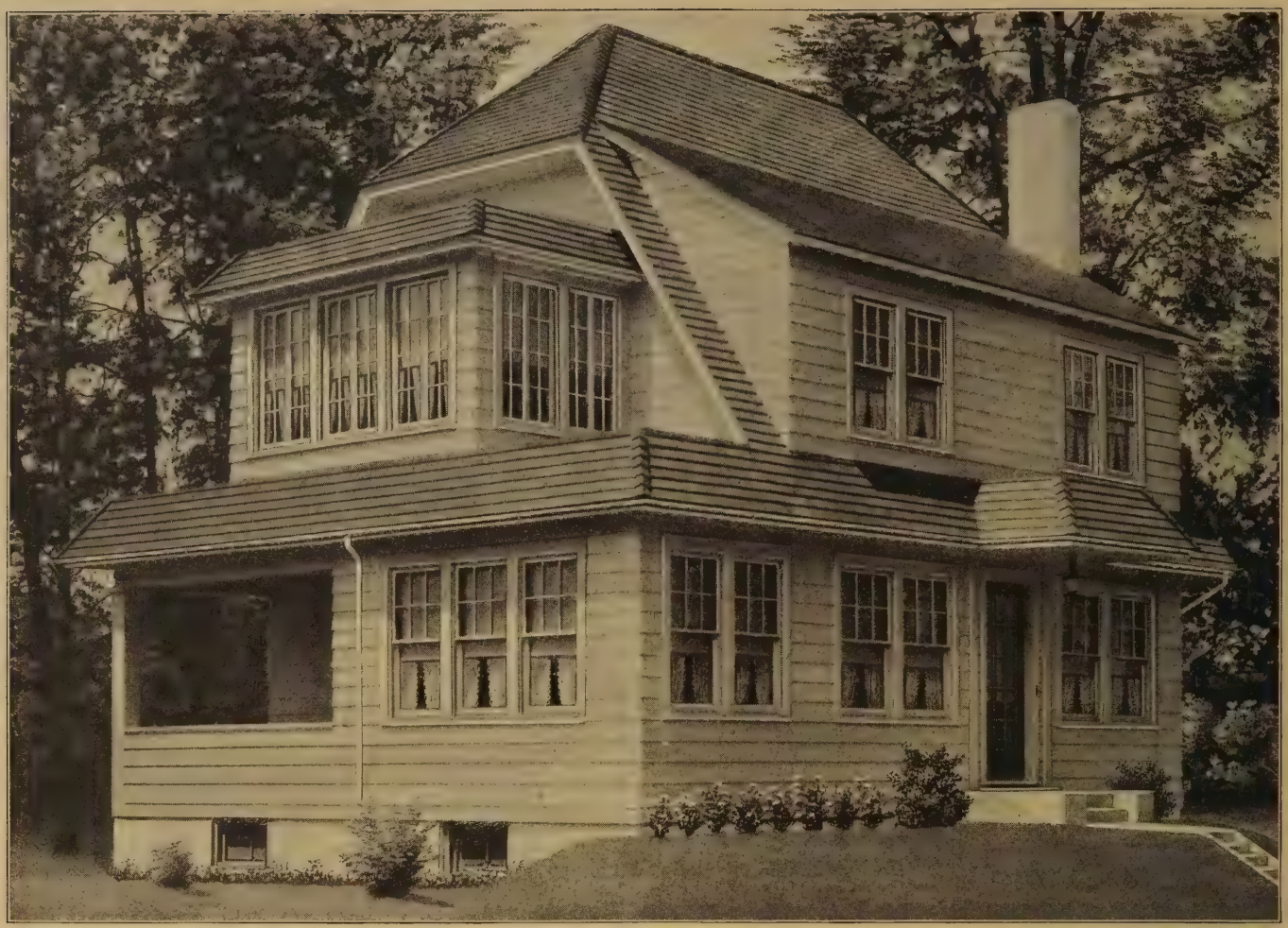
Extreme Width	34' 6"
Extreme Depth	46' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

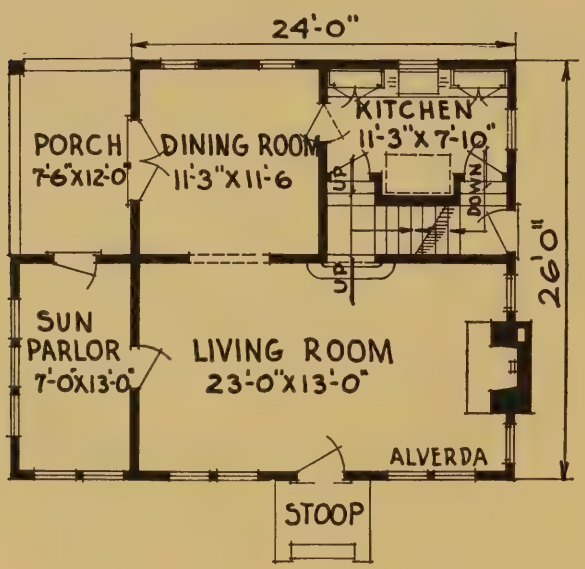
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



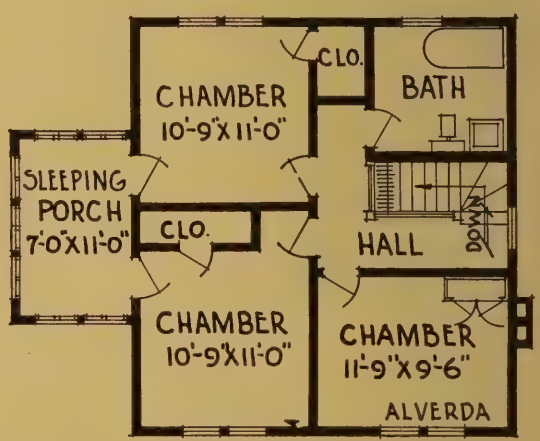
6 Rooms, Bath, Sun Parlor and Sleeping Porch

"The ALVERDA"

24 Ft. Wide x 26 Ft. Deep



BESIDES having a very pleasing exterior the "Alverda" has many desirable features. It has a large living room with a cozy fire place at one end and a well lighted sun parlor at the other. The open porch off the dining room and sun parlor is a very noteworthy feature. The second floor is directly accessable from the kitchen as well as from the living room. The well ventilated sleeping porch is accessable from two bedrooms.



SIZES:

Extreme Width	36' 6"
Extreme Depth	33' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

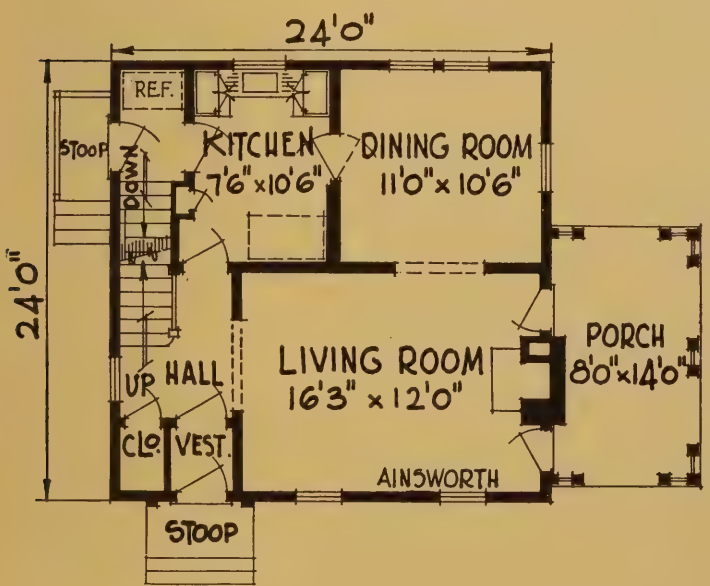
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



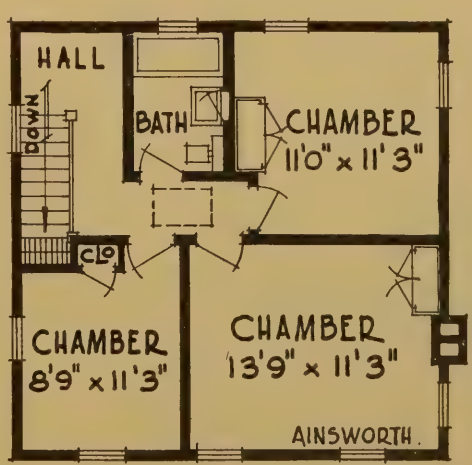
6 Rooms and Bath

"The AINSWORTH"

24 Ft. Wide x 24 Ft. Deep



THE effective hood in front, and the large side porch give the "Ainsworth" a particular appeal. Accessibility of all chambers to the bath is noteworthy. The combination of shutters with the colonial siding appeals.



SIZES:

Extreme Width	33' 9"
Extreme Depth	29' 9"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

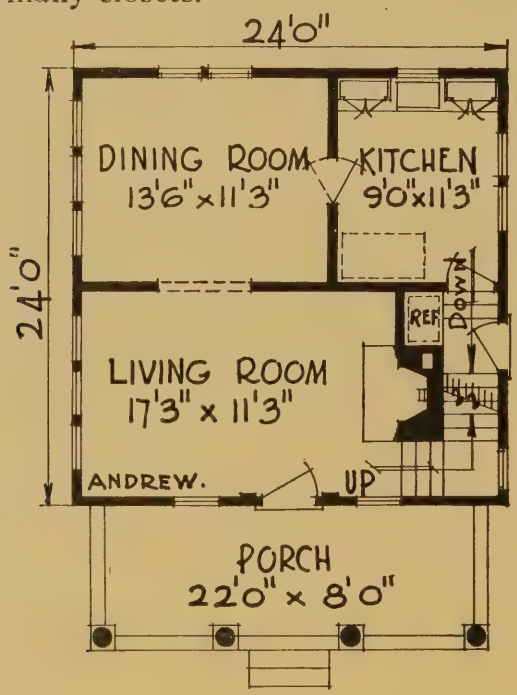


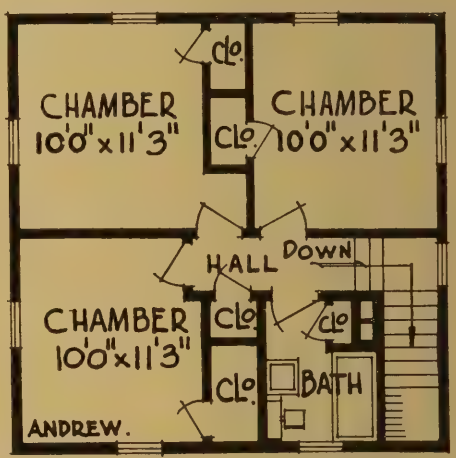
6 Rooms and Bath

"The ANDREW"

24 Ft. Wide x 24 Ft. Deep

A GOOD, stable home of frame, giving an unusually homey impression. The large porch is something to be appreciated. A good sized living room, a handy kitchen, and three large chambers make it as homey inside as out. The housewife is sure to be pleased with the many closets.





SIZES:

Extreme Width	30' 0"
Extreme Depth	36' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

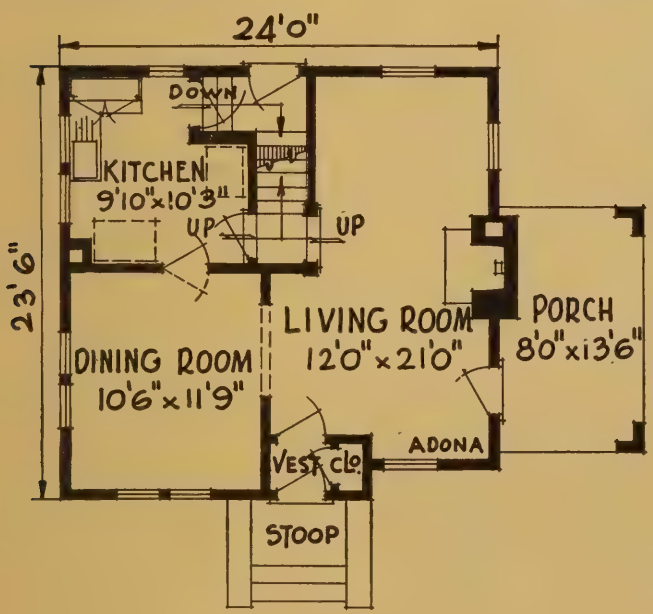
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



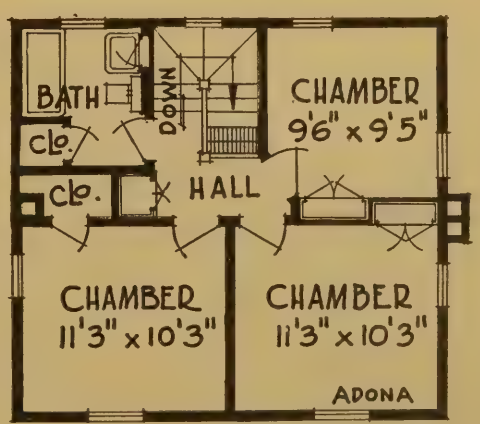
6 Rooms and Bath

"The ADONA"

24 Ft. Wide x 23 Ft. 6 In. Deep



SIMPLE yet inviting and pleasing by its very simplicity. The entrance catches the eye and holds it. The long, sweeping living room with its open fireplace is a room of happiness. Then there is the wide open porch for cool summer evenings.



SIZES:

Extreme Width	35′ 0″
Extreme Depth	31′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**..... **$20.00**

Secure above plans, etc., from your local Lumber or Building Material Dealer,

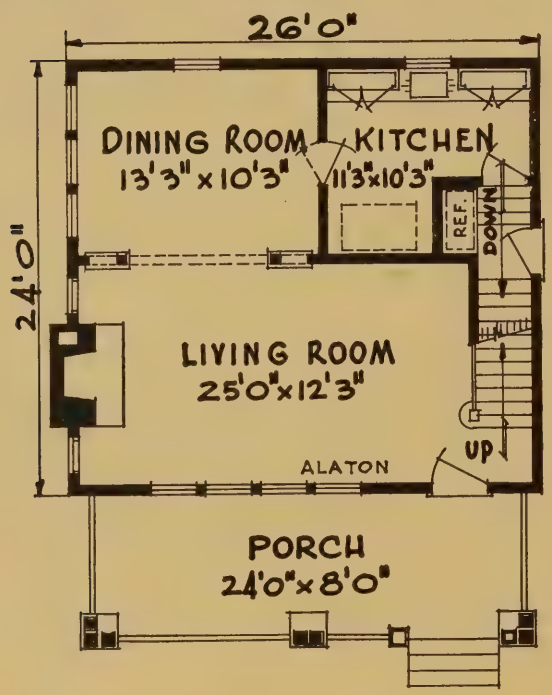
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



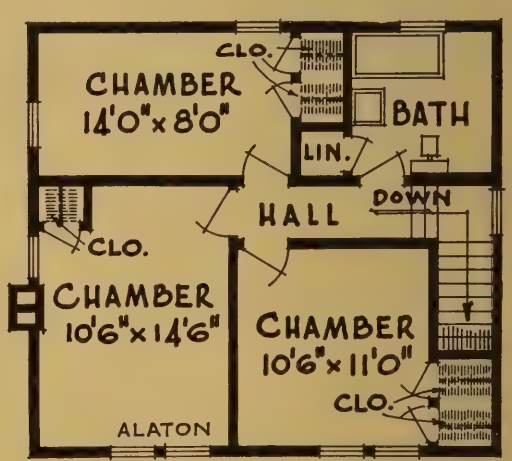
6 Rooms and Bath

"The ALATON"

26 Ft. Wide x 24 Ft. Deep



AN especially fetching home; one that would be a credit to any community. The spacious living room opens directly into the well lighted dining room. The kitchen is fully equipped with all modern conveniences. Space saving closet fixtures are found upstairs.



SIZES:

Extreme Width	30' 0"
Extreme Depth	37' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

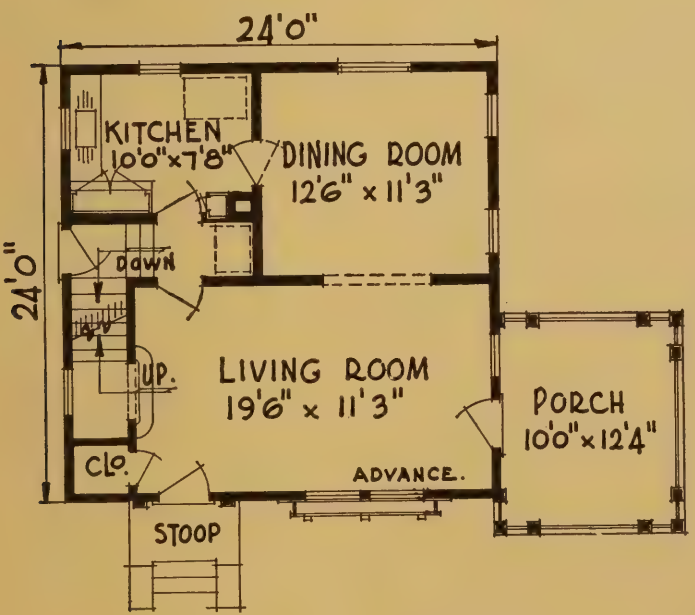
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



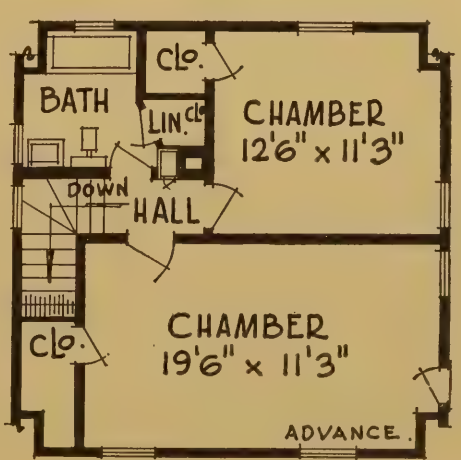
5 Rooms and Bath

"The ADVANCE"

24 Ft. Wide x 24 Ft. Deep



A POPULAR type of home, yet interesting details, such as broken roof lines, removes it from the ordinary. The interior is light, airy and commodious. The rooms were arranged with the idea of economy for the housewife.



SIZES:

Extreme Width	36' 0"
Extreme Depth	32' 0"
First Floor Ceiling	8' 8"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

Secure above plans, etc. from your local Lumber or Building Material Dealer.

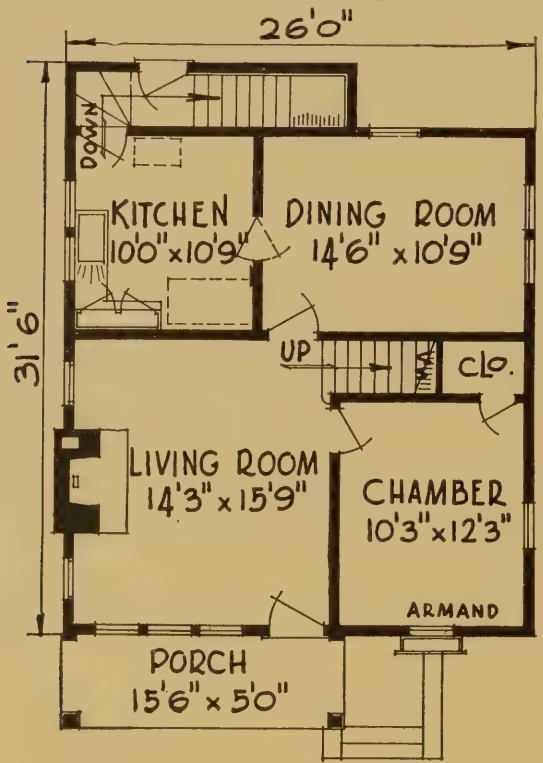


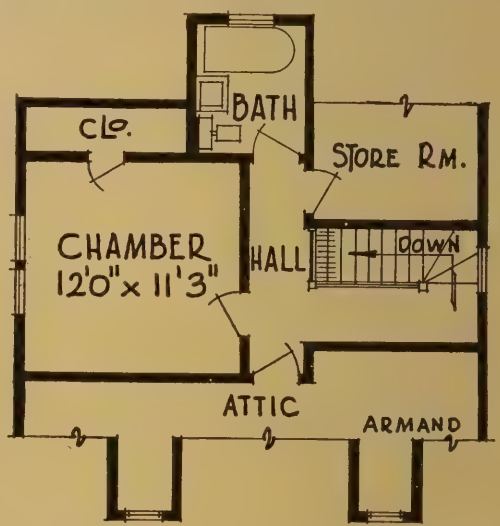
5 Rooms, Bath and Store Room

"The ARMAND"

26 Ft. Wide x 31 Ft. 6 In. Deep

A POPULAR home, but the architect's taste separates it from its neighbors. Two dormers, a high chimney, an artistic porch all go to show this. The arrangement of rooms is practical, comfortable and accessible. The storeroom upstairs should be pointed out.





SIZES:

Extreme Width	27' 0"
Extreme Depth	39' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications and Two (2) Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

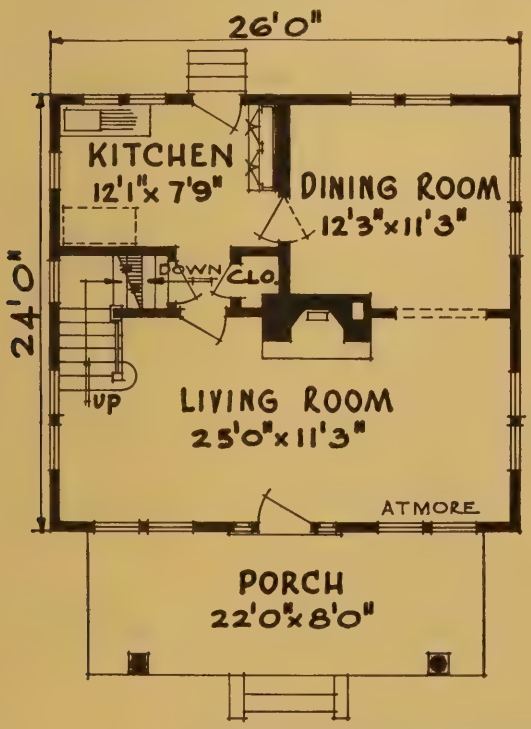


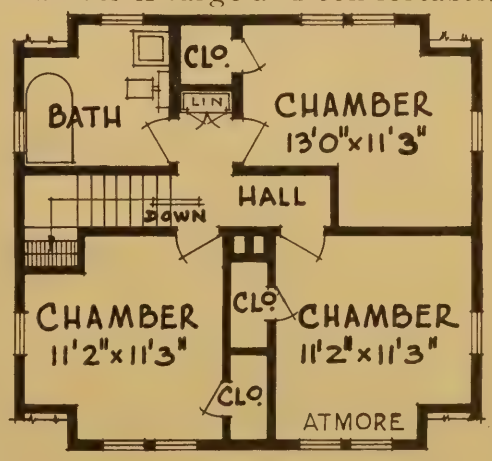
6 Rooms and Bath

"The ATMORE"

26 Ft. Wide x 24 Ft. Deep

THE "Atmore" presents an attractive appearance rarely found in homes of its price. It is inexpensive to build as the specifications show. The living room is full size and is individualized by the big fireplace and open stairway. Each chamber is large and comfortable.





SIZES:

Extreme Width	27' 0"
Extreme Depth	37' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**
$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

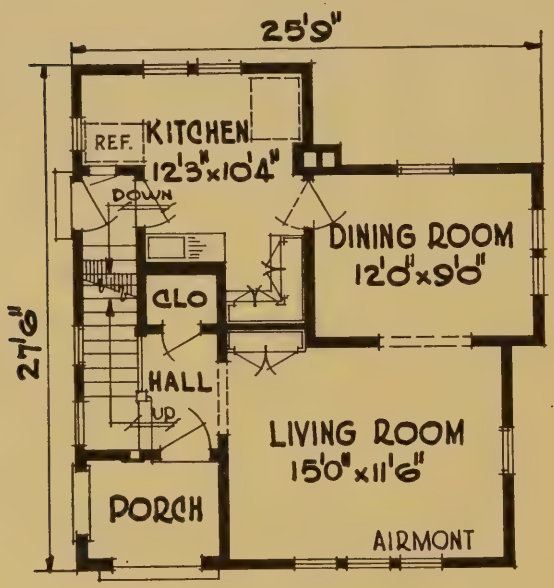
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



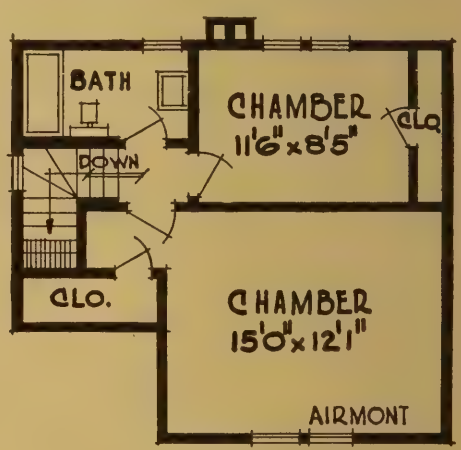
5 Rooms and Bath

"The AIRMONT"

25 Ft. 9 in. Wide x 27 Ft. 6 in. Deep



WIDE shingles are very effective in this small home. The thoughtful distribution of rooms has utilized every inch of space. A home of taste and convenience.



SIZES:

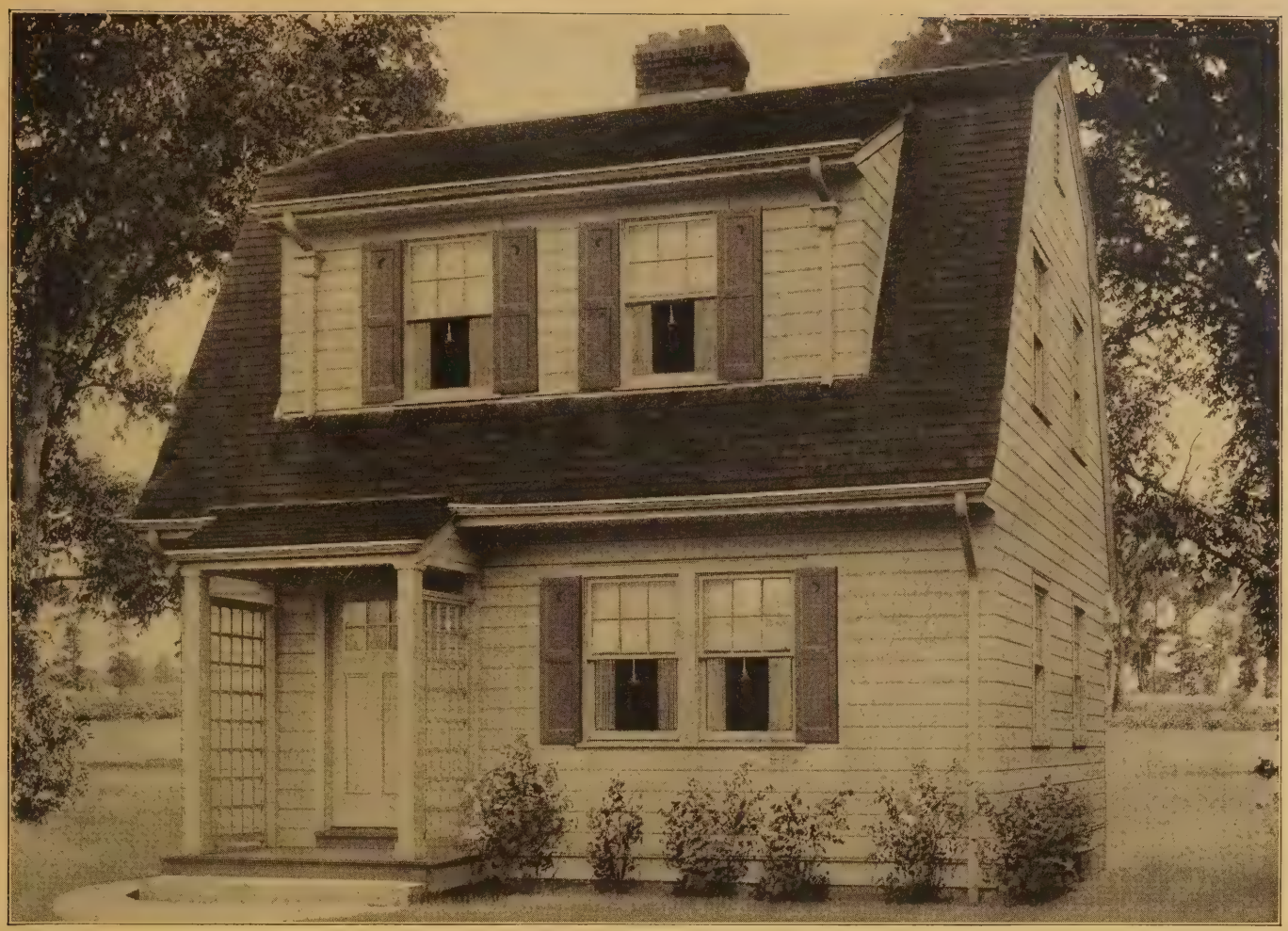
Extreme Width	28' 0"
Extreme Depth	30' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

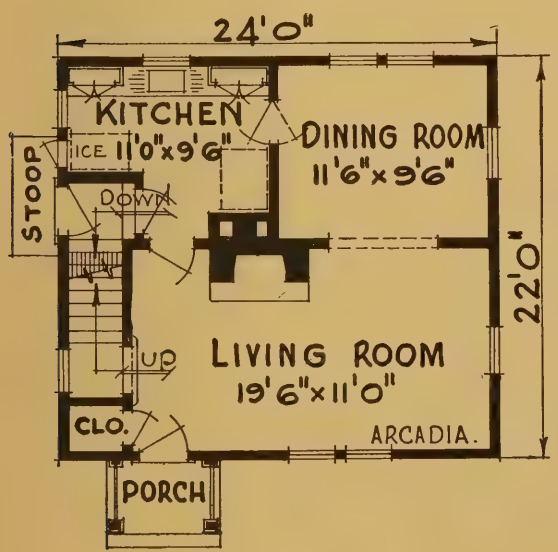
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

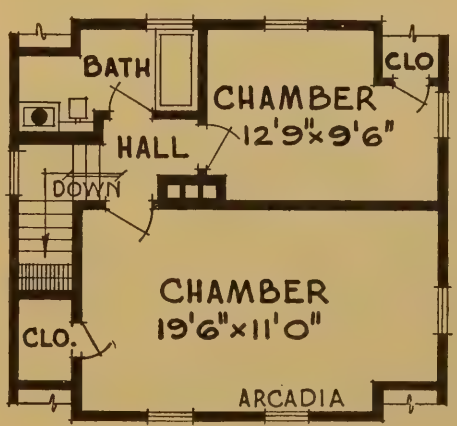
"The ARCADIA"

24 Ft. Wide x 22 Ft. Deep



THE IDEAL home for a small family. The trellised entrance and shutters are very effective features in the creation of this cozy, popular, medium priced home.

Ease and comfort were carefully considered when designing the large chambers and living room.



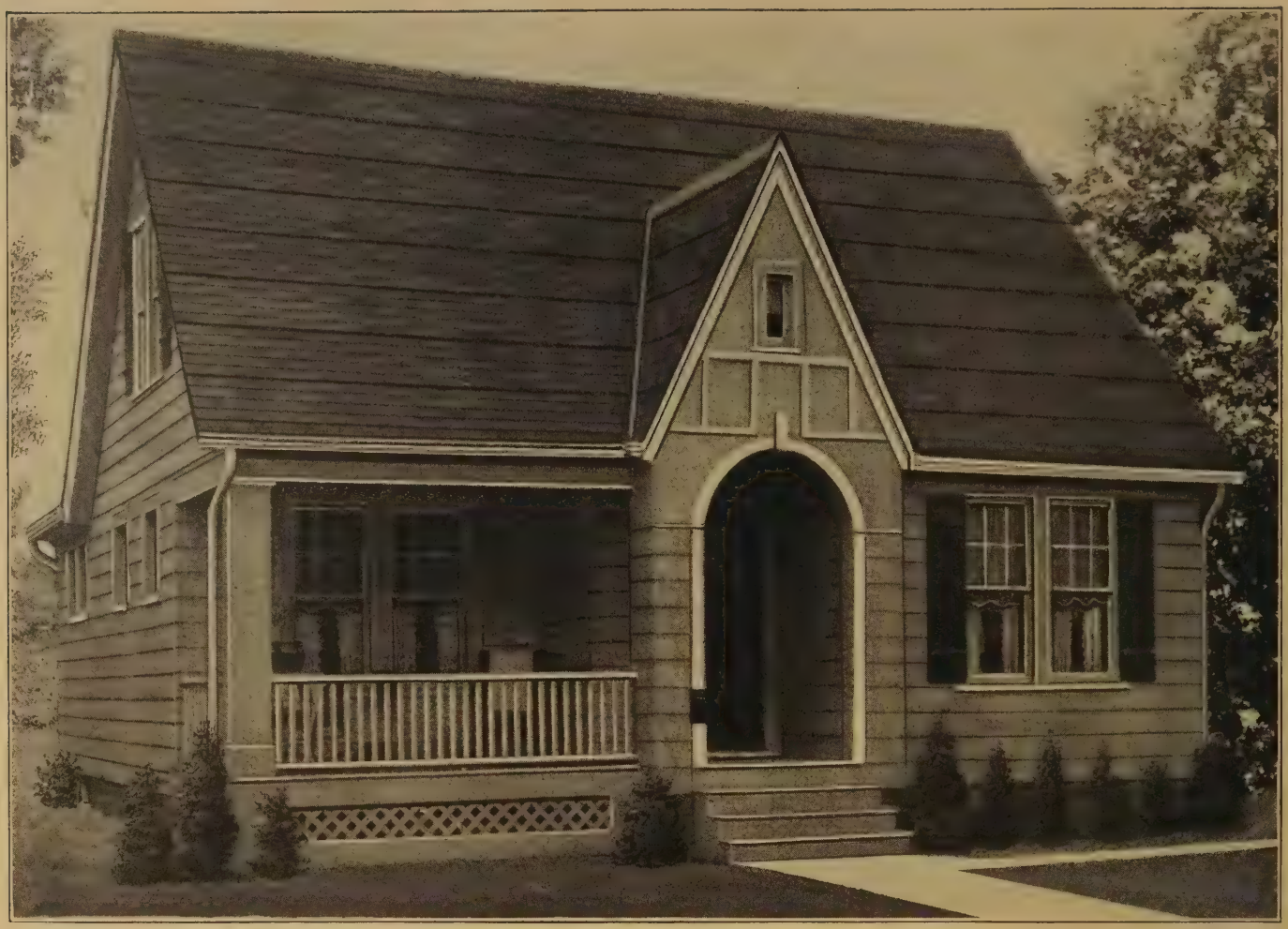
SIZES:

Extreme Width	27' 0"
Extreme Depth	28' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

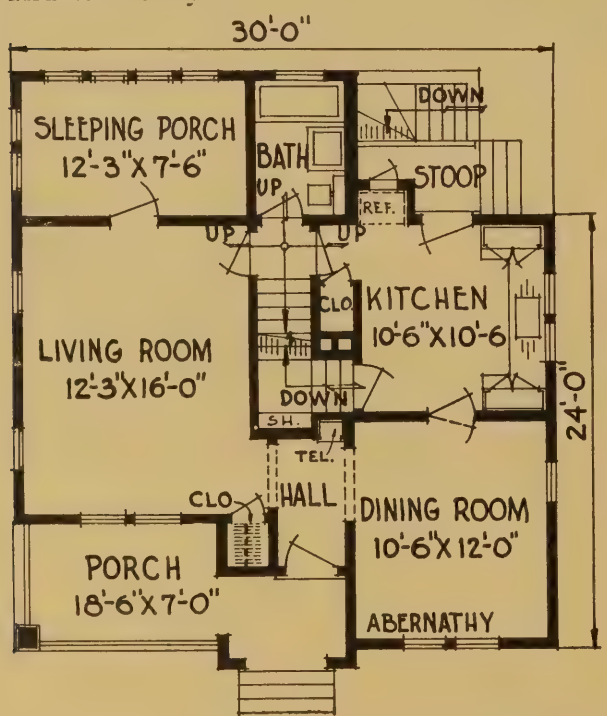


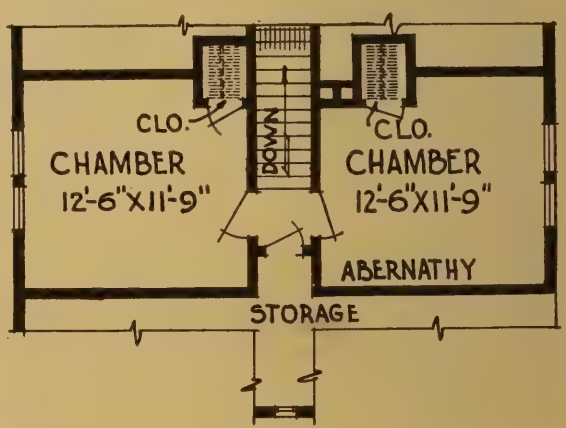
5 Rooms, Bath and Sleeping Porch

"The ABERNATHY"

30 Ft. Wide x 32 Ft. Deep

SIDING and stucco blend to make a very effective front on the "Abernathy." An arched entrance is always impressive. Two large chambers and a sleeping porch provide ample room for all. The closets are equipped with space saving hangers, thereby adding neatness and efficiency.





SIZES:

Extreme Width	31' 6"
Extreme Depth	37' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

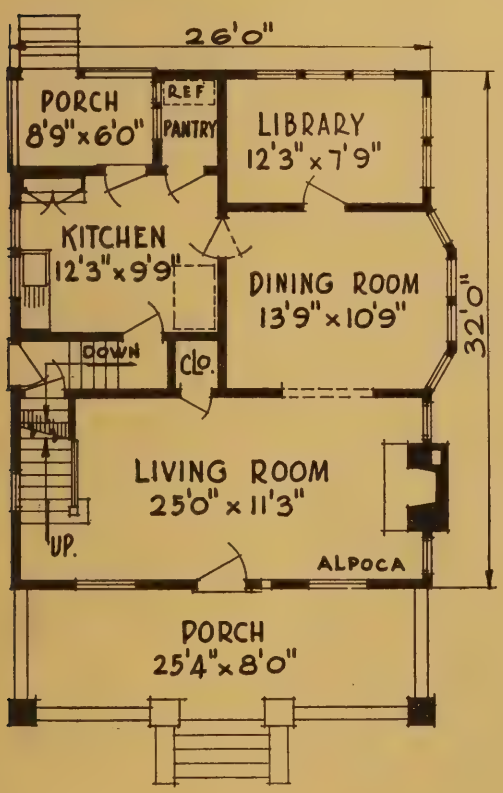
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



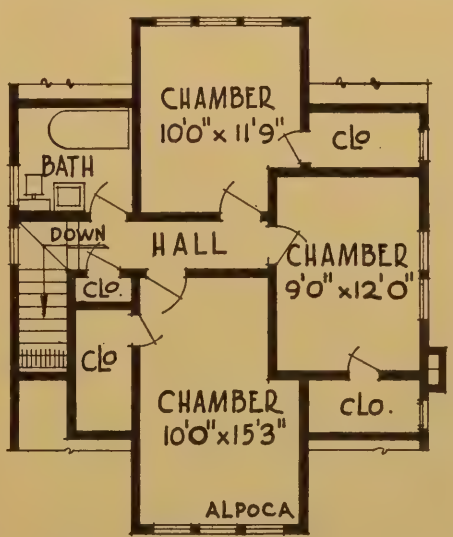
6 Rooms, Bath and Library

"The ALPOCA"

26 Ft. Wide x 32 Ft. Deep



CONVENTIONAL in appearance, but pleasingly so. The fireplace in the living room, the bay in the dining room and the many windows in the library are all excellent features. Each chamber is individual in size and arrangement, thereby aiding the decorator.



SIZES:

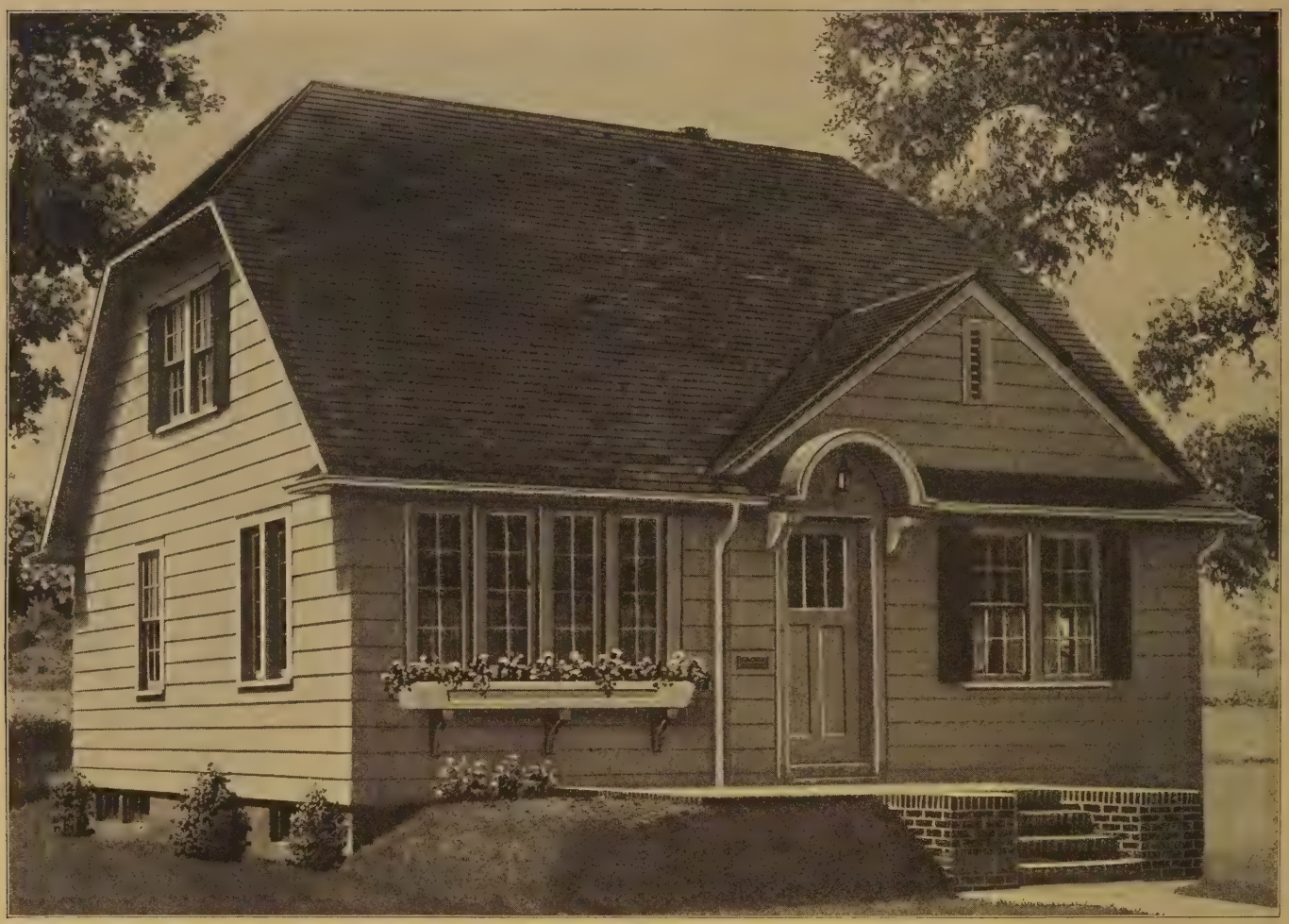
Extreme Width	30' 6"
Extreme Depth	48' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

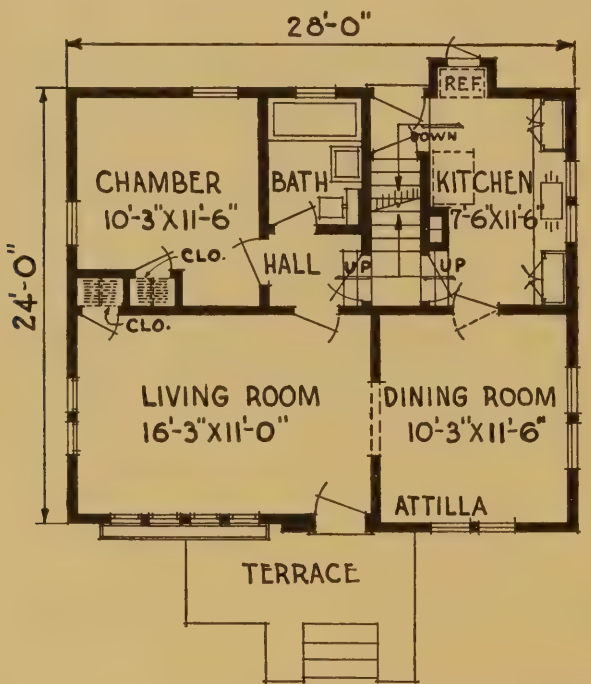


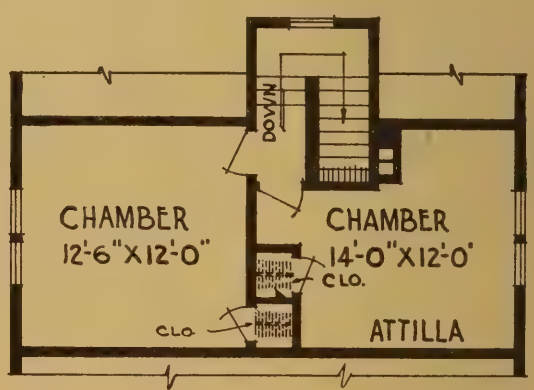
6 Rooms and Bath

"The ATTILA"

28 Ft. Wide x 24 Ft. Deep

MANY things—the flower boxes, the shutters, hood over entrance, long sloping roof—give the "Attila" outward charm. From the moment you step in the door, you are taken with the airiness, arrangement and spaciousness of the rooms. Space saving closets give added space and neatness.





SIZES:

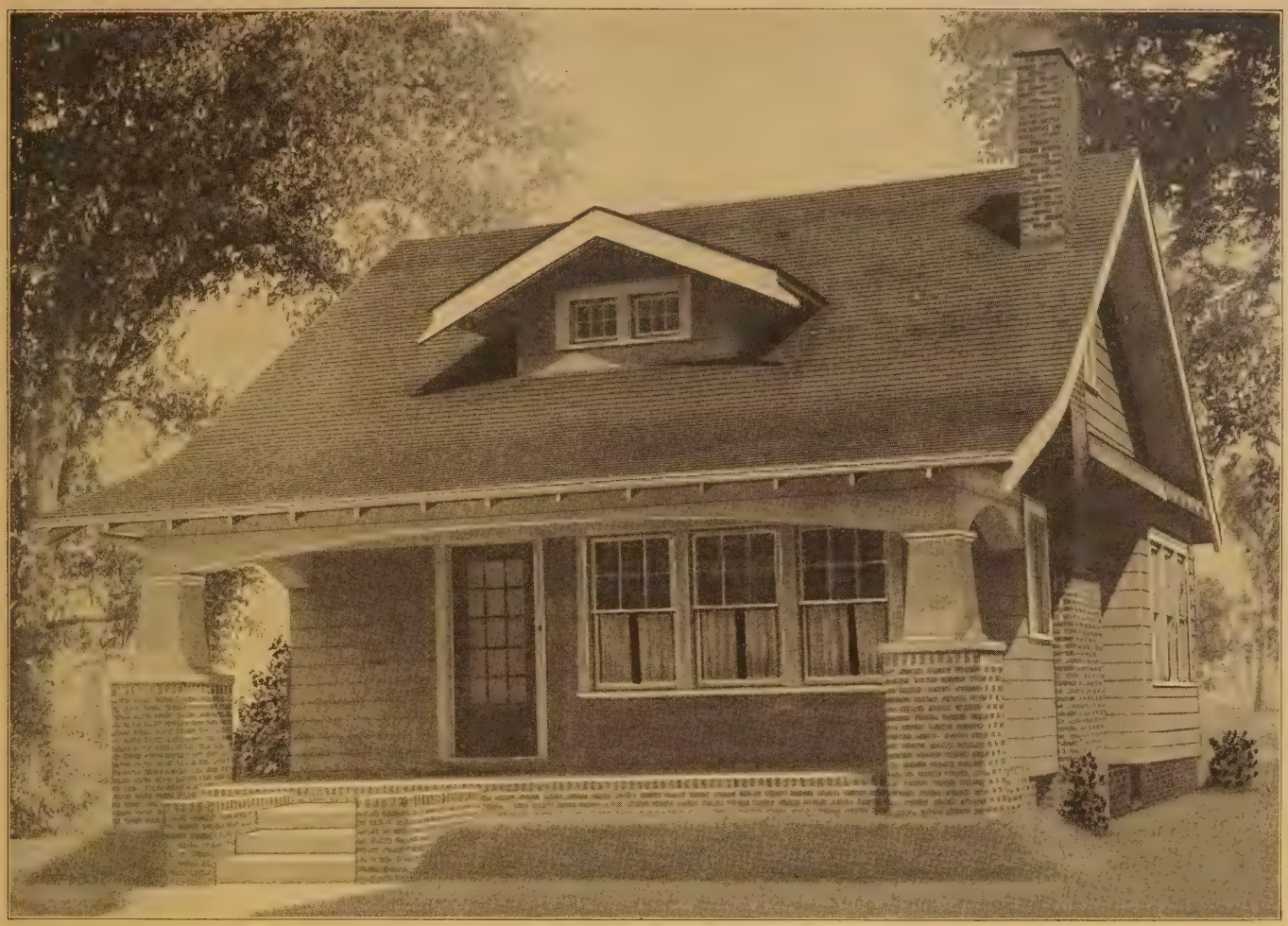
Extreme Width	30' 0"
Extreme Depth	34' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

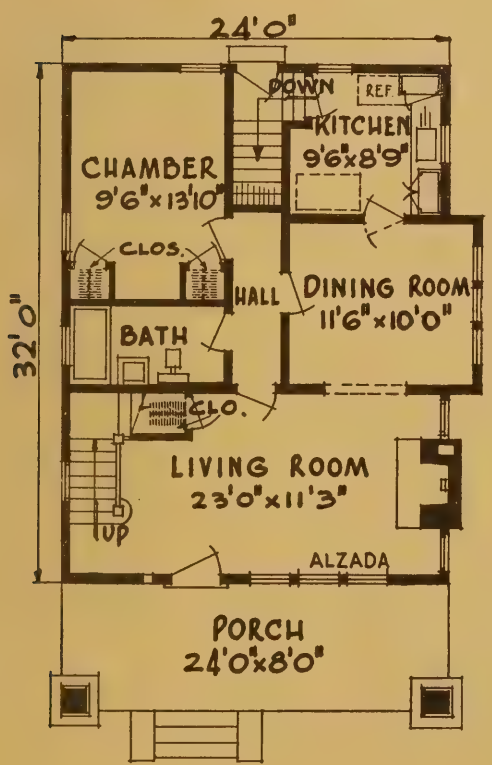
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



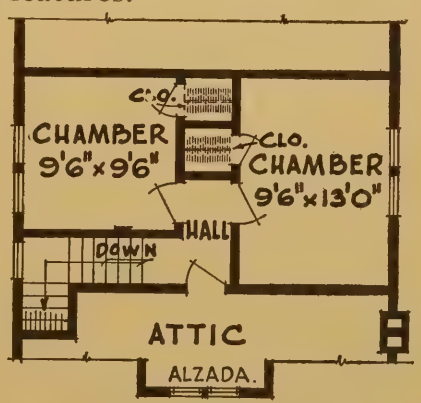
6 Rooms and Bath

"The ALZADA"

24 Ft. Wide x 32 Ft. Deep



YOU have seen many homes of the "Alzada" type and have been invariably pleased. There is a hominess about them that is unmistakable. Here you have a floor plan that is particularly satisfying. Space saving closet fixtures, built-in mail boxes and attic for storage are among the special features.



SIZES:

Extreme Width	28' 10"
Extreme Depth	45' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

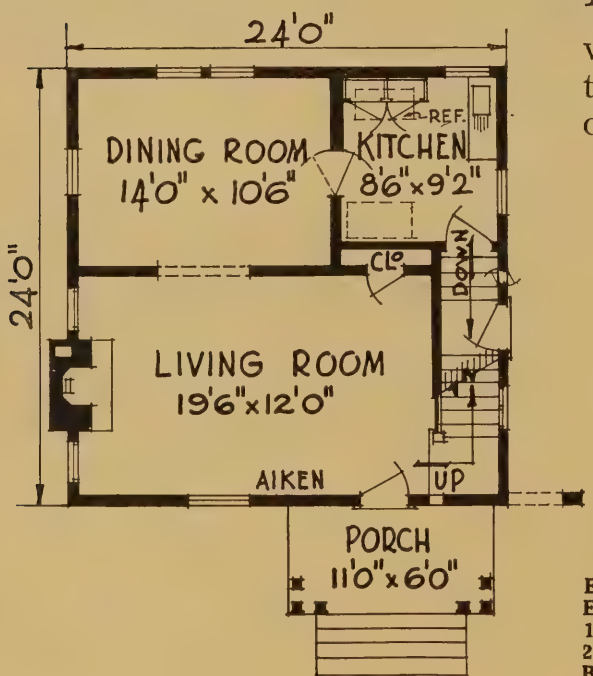


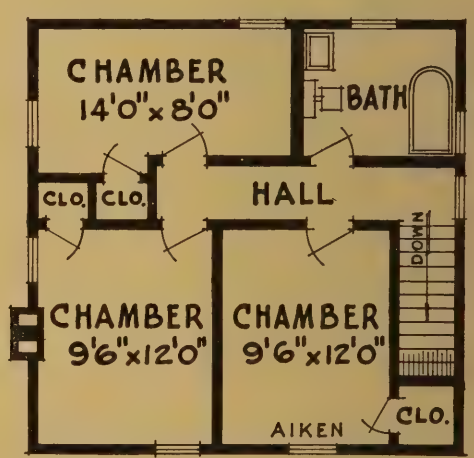
6 Rooms and Bath

"The AIKEN"

24 Ft. Wide x 24 Ft. Deep

DOMESTIC comfort and happiness are the gifts of the "Aiken." The rustic shingles with trellised porch make a very pleasing exterior. Clean, neat rooms, both upstairs and down. A fire-place enhances the living room.





SIZES:

Extreme Width	31' 0"
Extreme Depth	35' 6"
1st Floor Ceiling	8' 6"
2nd Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

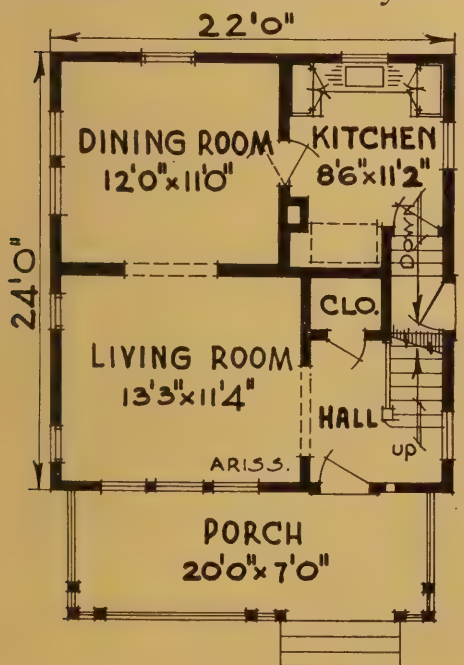


5 Rooms and Bath

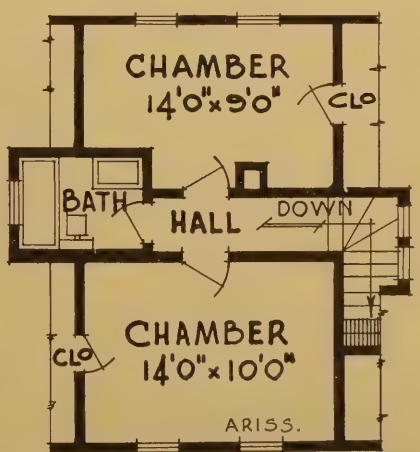
"The ARISS"

22 Ft. Wide x 24 Ft. Deep

A SMALL home offering large rooms, an ideal combination for the small family. Its popular price is something to be considered. The upstairs is distributed to utilize every inch of space. The construction is solid and substantial.



THE PLANS AND DETAILS OF HOMES AT MODERATE COST ARE AS CAREFULLY DESIGNED AS THE MOST PRETENTIOUS RESIDENCES.



SIZES:

Extreme Width	25' 0"
Extreme Depth	34' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

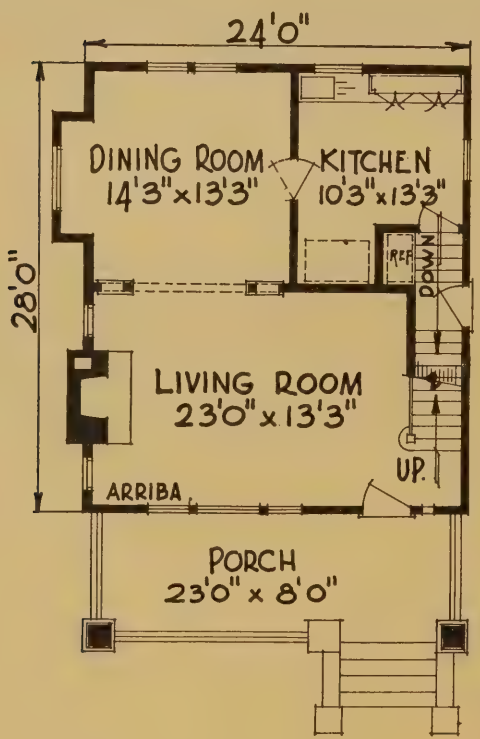
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



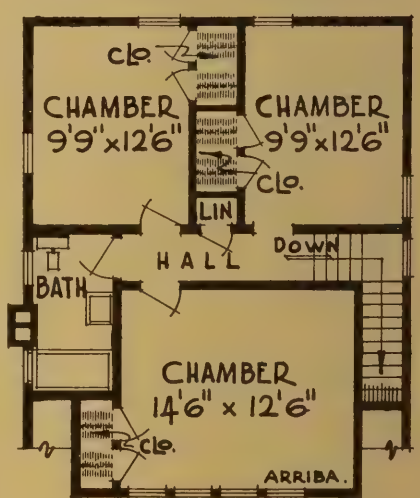
6 Rooms and Bath

"The ARRIBA"

24 Ft. Wide x 28 Ft. Deep



A FAMILY is known by the home in which it lives. The "Arriba" shows the character and taste of its occupants. Inside we find the same dignity preserved in the imposing living room and large dining room. Space saving closet fixtures give added room and tidiness.



SIZES:

Extreme Width	29' 6"
Extreme Depth	43' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

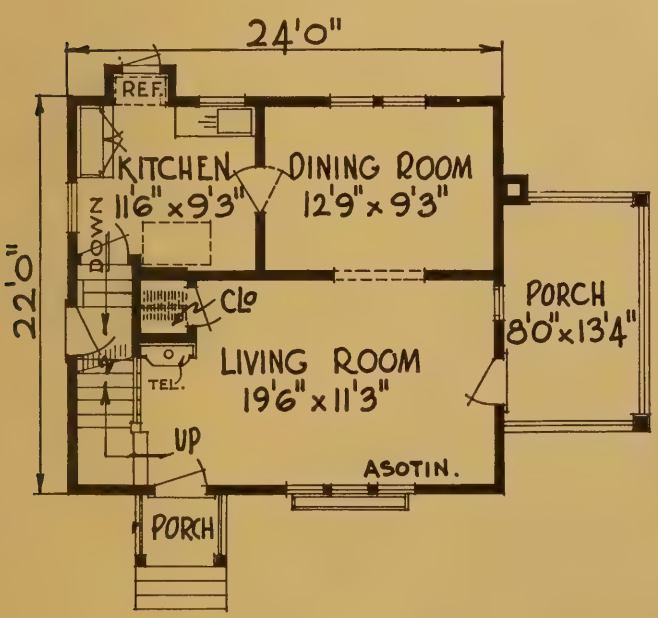


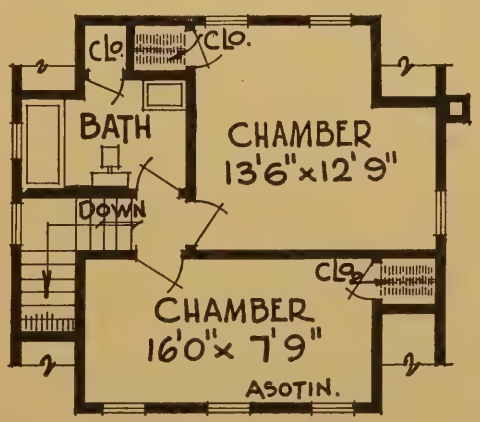
5 Rooms and Bath

"The ASOTIN"

24 Ft. Wide x 22 Ft. Deep

THE "Asotin" is in the conventional style, a style that has satisfied for years and continues to satisfy. Certain features, as the trellised entrance and flower boxes give it individuality. By placing the porch at the side privacy is obtained. Inside there is room and comfort for all.





SIZES:

Extreme Width	33' 6"
Extreme Depth	30' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

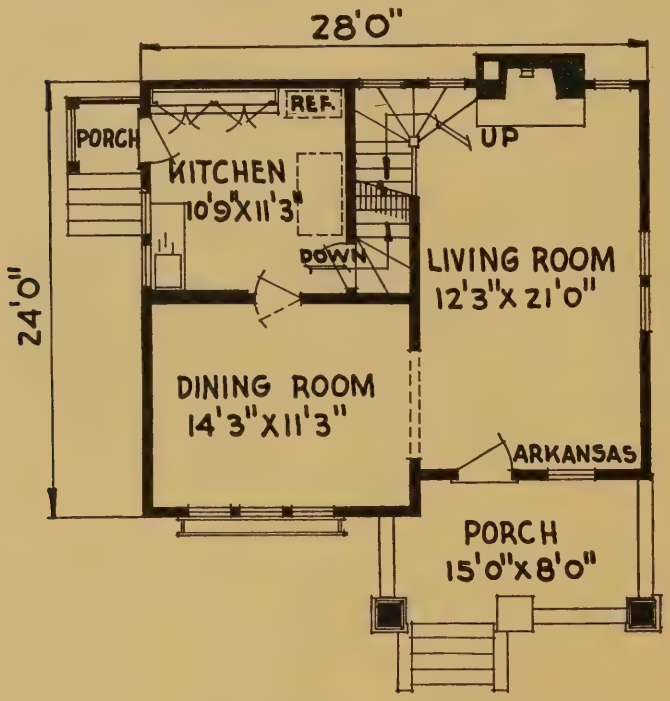


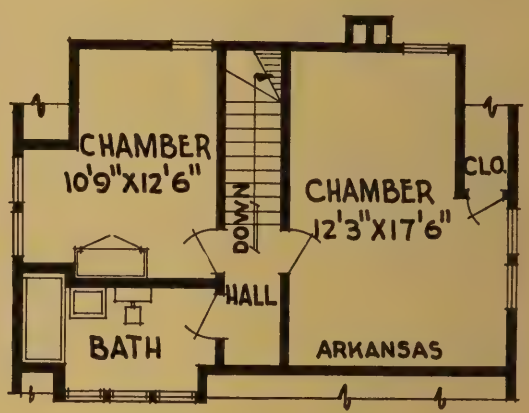
5 Rooms and Bath

"The ARKANSAS"

28 Ft. Wide x 24 Ft. Deep

A HOME of quality that is satisfying to look at and restful to live in. The living and dining rooms and large chambers upstairs offer unlimited possibilities for attractive furnishing. Duties that were heretofore irksome will become pleasures in this sanitary and convenient kitchen.





SIZES:

Extreme Width	36' 0"
Extreme Depth	35' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

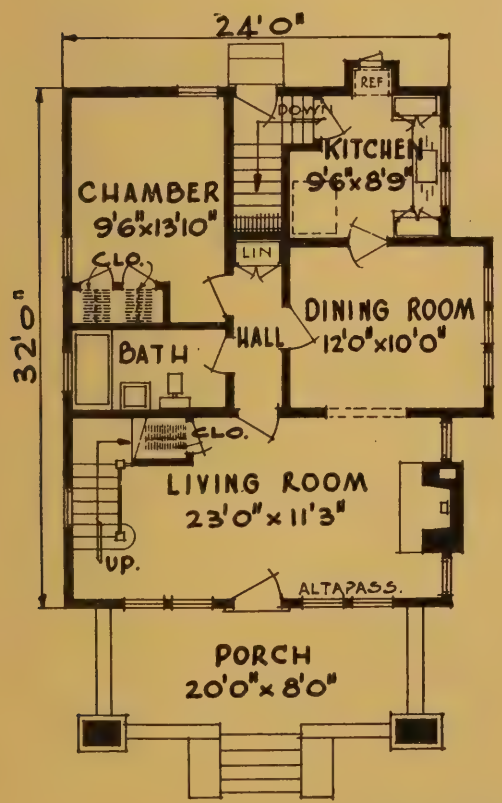
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



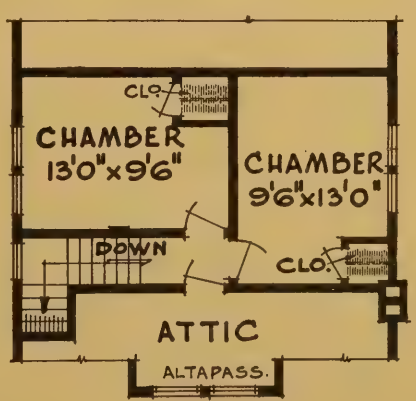
6 Rooms and Bath

"The ALTAPASS"

24 Ft. Wide x 32 Ft. Deep



A BEAUTIFUL exterior, and an excellently devised floor plan are here offered at a low cost. A linen closet, space saving closet fixtures, storage room, kitchen conveniences are all found here. All to be desired in a home and at a very moderate price.



SIZES:

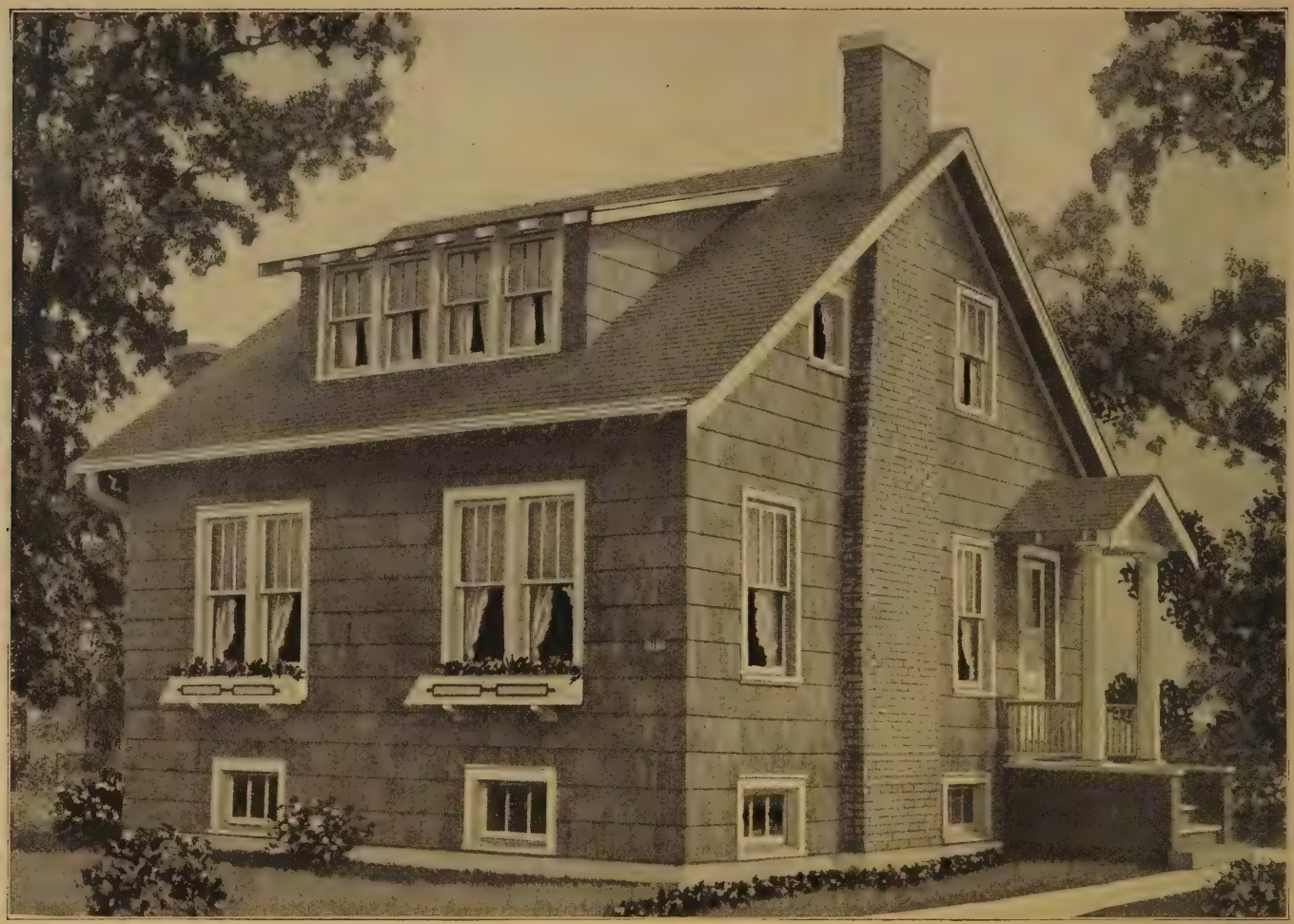
Extreme Width	29' 6"
Extreme Depth	45' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

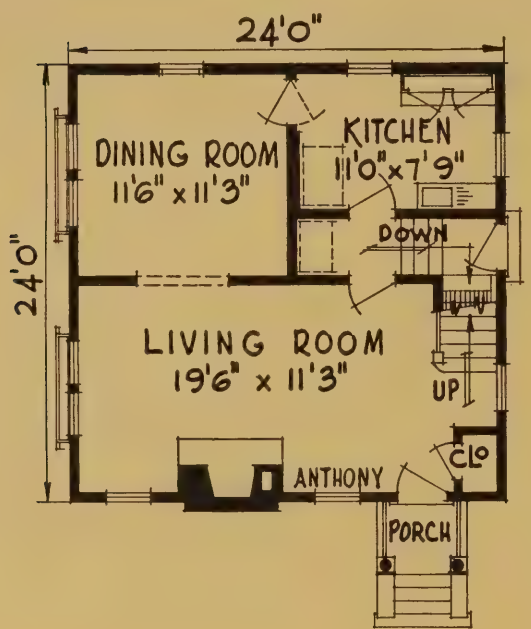
Secure above plans, etc. from your local Lumber or Building Material Dealer.



5 Rooms and Bath

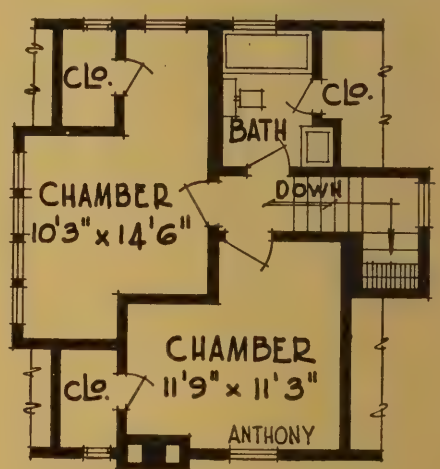
"The ANTHONY"

24 Ft. Wide x 24 Ft. Deep



PLAIN, yet pleasing by its very simplicity. This home is excellently placed on a corner. The handy arrangement of the rooms cannot fail to be appreciated by the knowing housewife.

This house will be appreciated by those desiring a home with modern conveniences at a moderate cost.



SIZES:

Extreme Width	27′ 6″
Extreme Depth	32′ 6″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

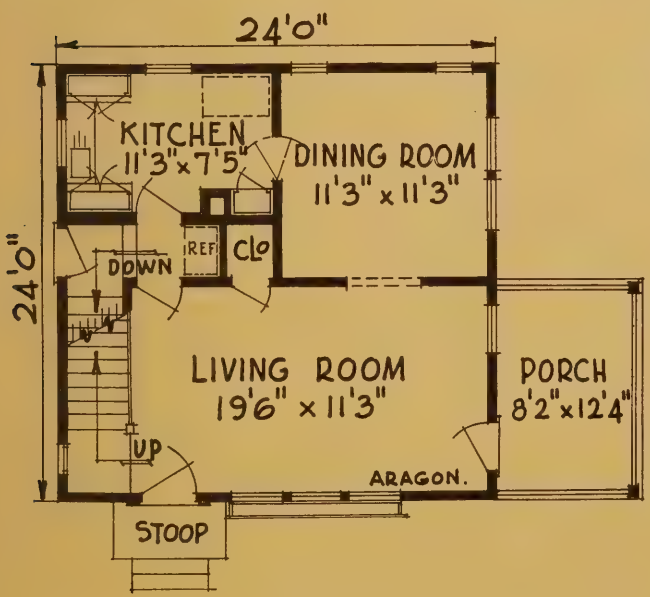
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



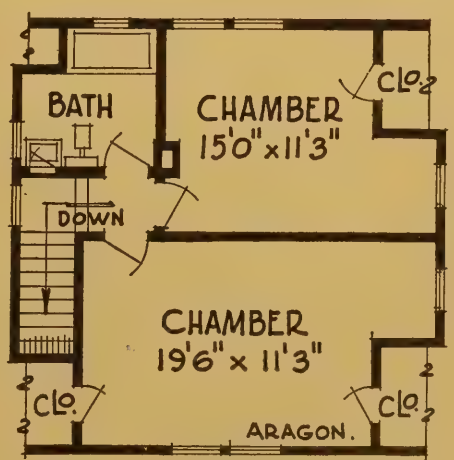
5 Rooms and Bath

"The ARAGON"

24 Ft. Wide x 24 Ft. Deep



THE combination of shingles with siding is very striking in this inexpensive home. The chambers are extra size, a feature sure to be appreciated.



SIZES:

Extreme Width	35′ 0″
Extreme Depth	30′ 3″
First Floor Ceiling	9′ 0″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

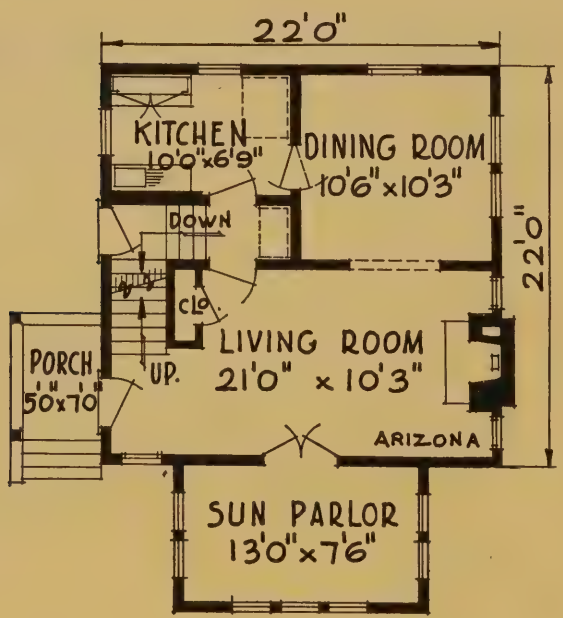
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



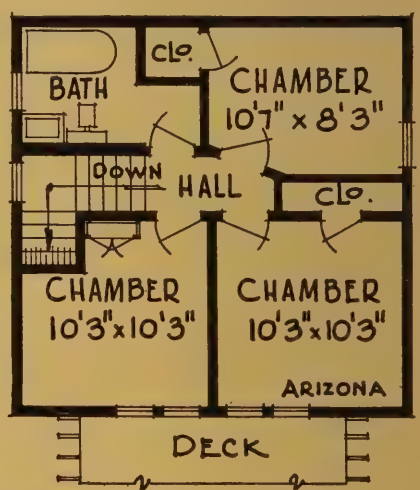
6 Rooms, Bath and Sun Parlor

"The ARIZONA"

22 Ft. Wide x 22 Ft. Deep



AN inexpensive home attractively done in shingles and siding. The living room is spacious and comfortable and contains a closet for wraps, etc. By careful arrangement the architect has achieved the maximum space in the upstairs chambers.



SIZES:

Extreme Width	29' 6"
Extreme Depth	33' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

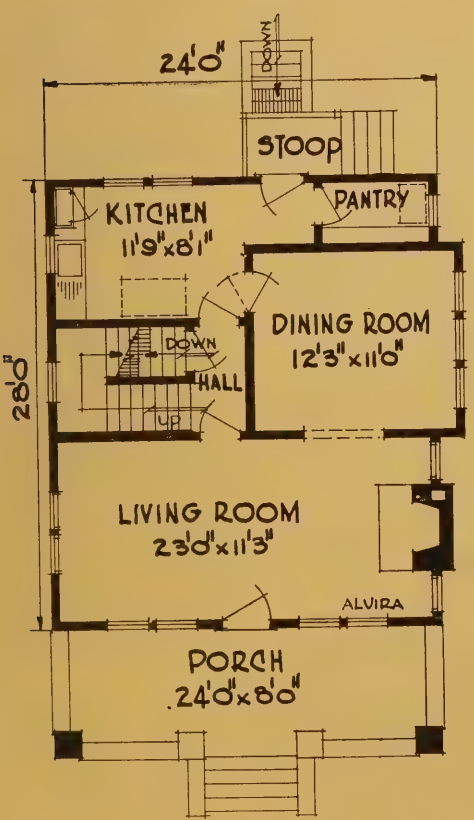
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

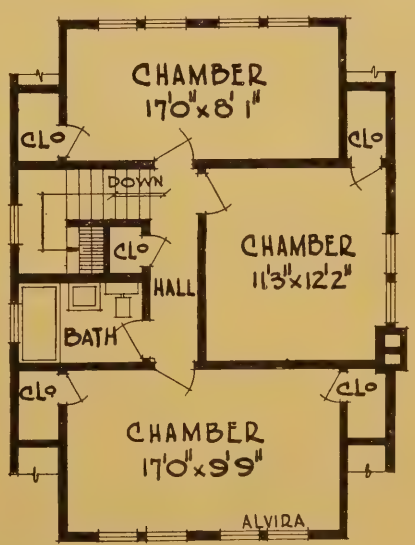
"The ALVIRA"

24 Ft. Wide x 28 Ft. Deep



A POPULAR type of home, and justifiably so for it is reasonable to build, yet rich in appearance. Airy chambers and ample closet space are the features of the upstairs. A pleasing dwelling in every particular.

It offers large rooms and practical convenience.



SIZES:

Extreme Width	28' 6"
Extreme Depth	48' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

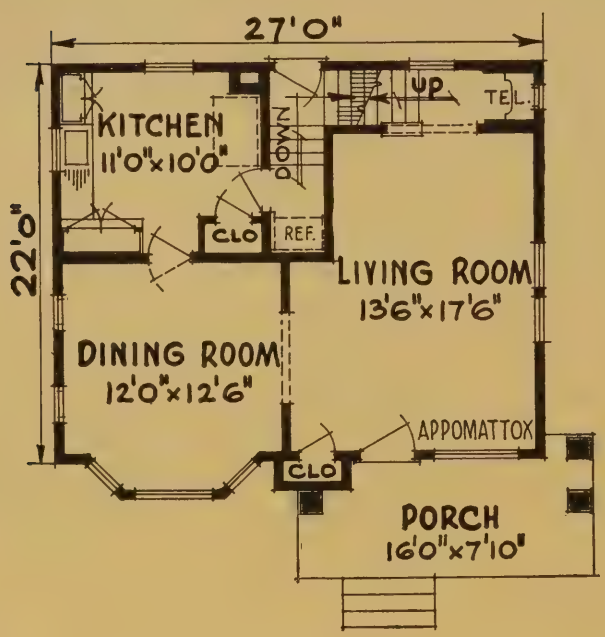
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



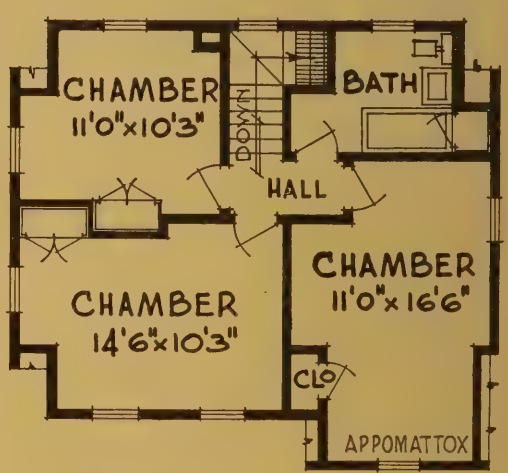
6 Rooms and Bath

"The APPOMATTOX"

27 Ft. Wide x 22 Ft. Deep



AN interesting combination of shingles and siding with an artistic asbestos roof. Big pillars give strength and stability to the picture. A well lighted dining room, and airy bedrooms are found inside together with other sanitary utility arrangements.



SIZES:

Extreme Width	32' 0"
Extreme Depth	33' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

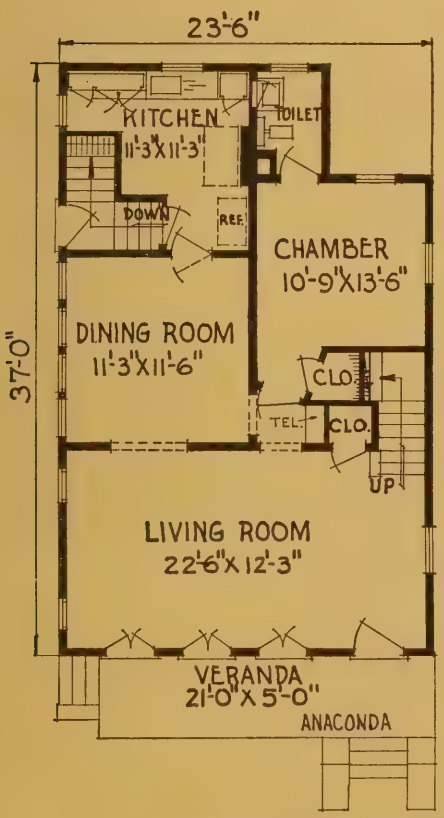
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



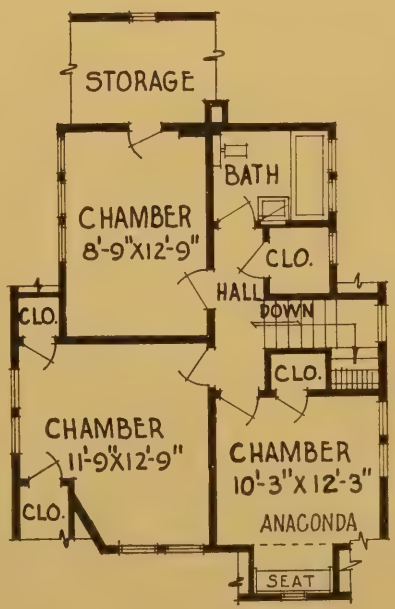
7 Rooms, Bath, Toilet and Storage

"The ANACONDA"

23 Ft. 6 In. Wide x 37 Ft. Deep



A STATELINESS, seldom seen in the medium priced home is achieved here, mainly through the three arched French doors and the imposing entrance. They all open directly into the spacious living room. The "Anaconda" is replete with conveniences, such as a telephone cabinet, a toilet on the first floor and a storage room upstairs.



SIZES:

Extreme Width	26′ 9″
Extreme Depth	47′ 9″
First Floor Ceiling	8′ 8″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

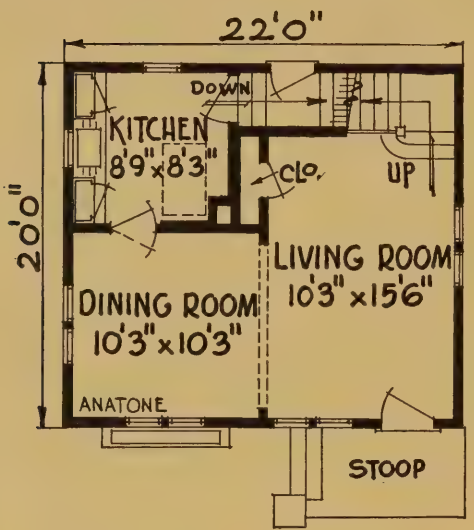
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

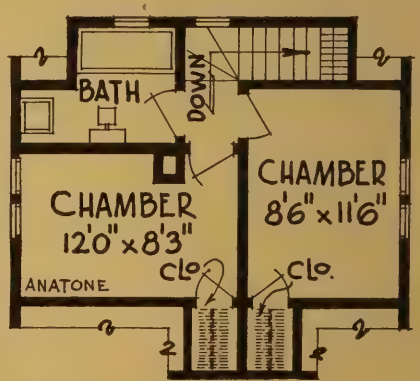
"The ANATONE"

22 Ft. Wide x 20 Ft. Deep



IN this day and age when everybody is building, people of taste want something a little different from the rest. For someone seeking this difference and at the same time not wanting to invest much the "Anatone," pictured above, is the perfect home.

AN EXTRA CHAMBER CAN BE HAD AT NIGHT BY USING A DISAPPEARING BED IN THE LIVING ROOM. STORE BED IN THE CLOSET IN DAY TIME.



SIZES:

Extreme Width	23' 0"
Extreme Depth	27' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

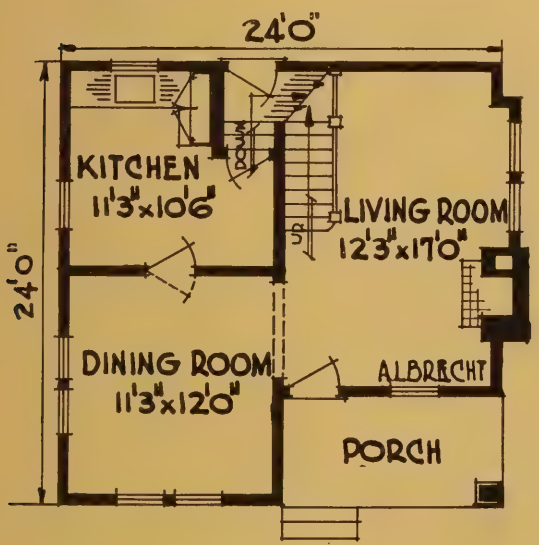
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



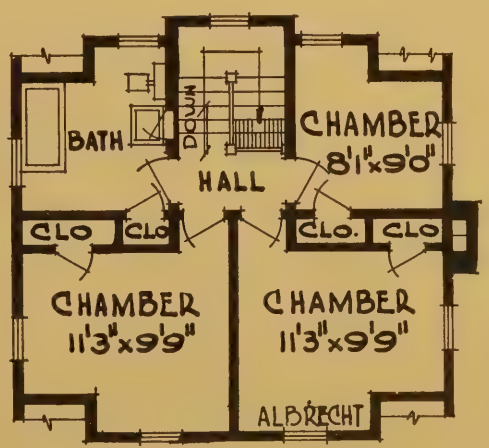
6 Rooms and Bath

"The ALBRECHT"

24 Ft. Wide x 24 Ft. Deep



SNUG, cozy, gem-like in appearance. A perfect choice for one desiring a small home. The tile hearth, and the open stairway set the living room off perfectly. All rooms are conveniently arranged for easy housekeeping.



SIZES:

Extreme Width	26′ 0″
Extreme Depth	28′ 6″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

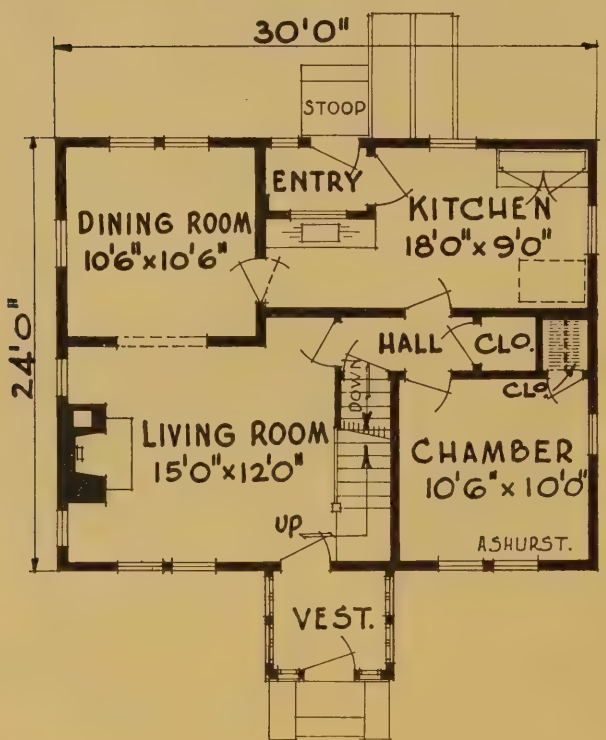
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



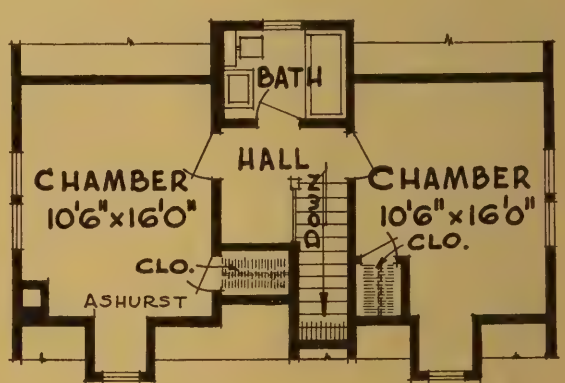
6 Rooms and Bath

"The ASHURST"

30 Ft. Wide x 24 Ft. Deep



TRIM and neat, bright and cheerful the "Ashurst" is a home of joy in every way. Inside we find light, airy rooms conveniently distributed. Glance for a moment at the efficient kitchen arrangement.



SIZES:

Extreme Width	32' 6"
Extreme Depth	40' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

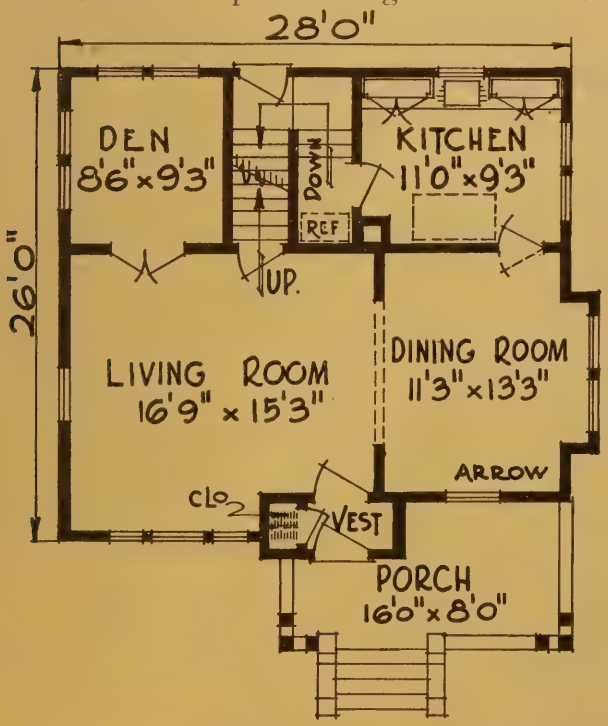


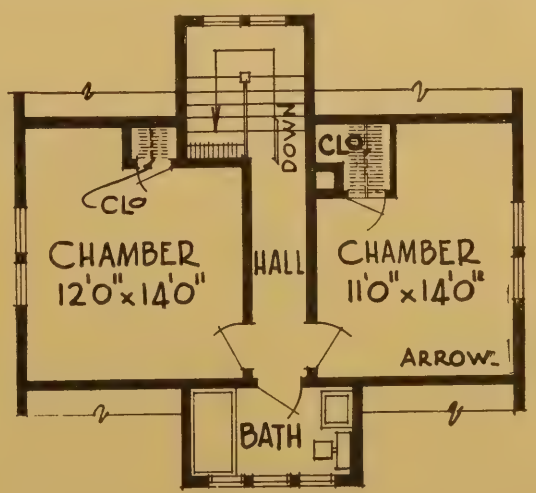
6 Rooms and Bath

"The ARROW"

28 Ft. Wide x 26 Ft. Deep

BY using siding below and dark shingles above the designer has succeeded in getting contrast in both color and texture. The front porch is breezy and sets the house off perfectly. The small den off the living room may also be used as a chamber. Space saving closet fixtures permit larger chambers.





SIZES:

Extreme Width	33' 0"
Extreme Depth	38' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

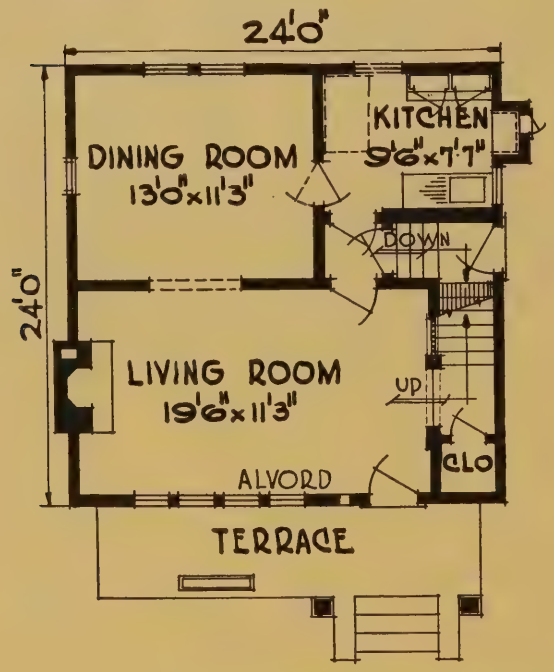


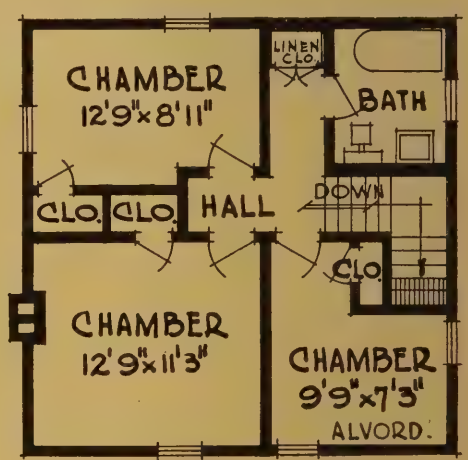
6 Rooms and Bath

"The ALVORD"

24 Ft. Wide x 24 Ft. Deep

THE pleasing contrast both in texture and color between the siding and shingled gables is instantly noticeable. The veranda lends the finishing touch. The living room with its fireplace and four front windows is a room of taste and comfort.





SIZES:

Extreme Width	37' 0"
Extreme Depth	34' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

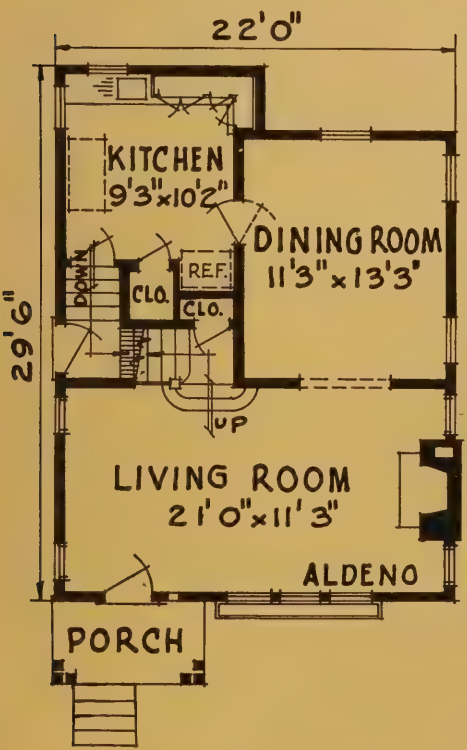
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



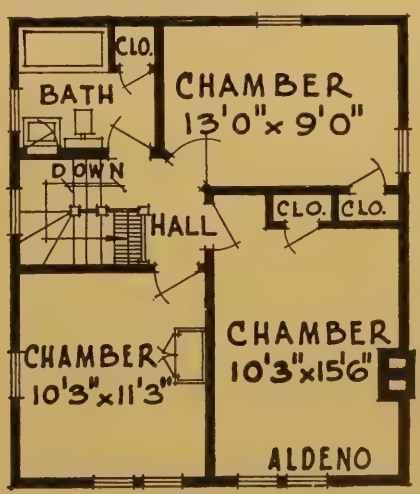
6 Rooms and Bath

"The ALDENO"

22 Ft. Wide x 26 Ft. Deep



AN inexpensive home of charm and taste. The thoughtfulness of the designer is responsible for the excellent arrangement of the rooms. The stairway opens attractively out of the living room.



SIZES:

Extreme Width	26' 0"
Extreme Depth	39' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

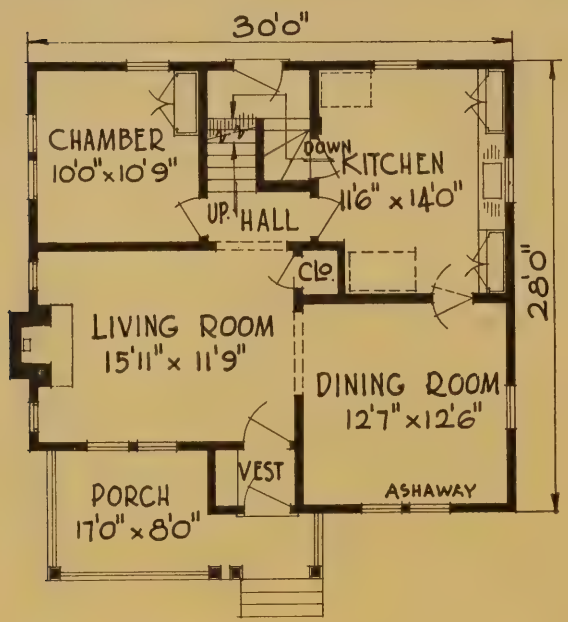
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



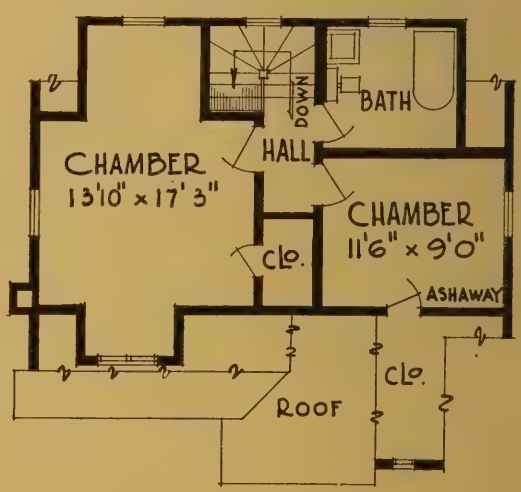
6 Rooms and Bath

"The ASHAWAY"

30 Ft. Wide x 28 Ft. Deep



A FRAME home of the popular type, attractive and inexpensive. The artistically sawed ends of the porch roof are particularly striking. Accessibility between the rooms has been a consideration of the architect. Built-in cabinets perfect the kitchen arrangement.



SIZES:

Extreme Width	32' 6"
Extreme Depth	35' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

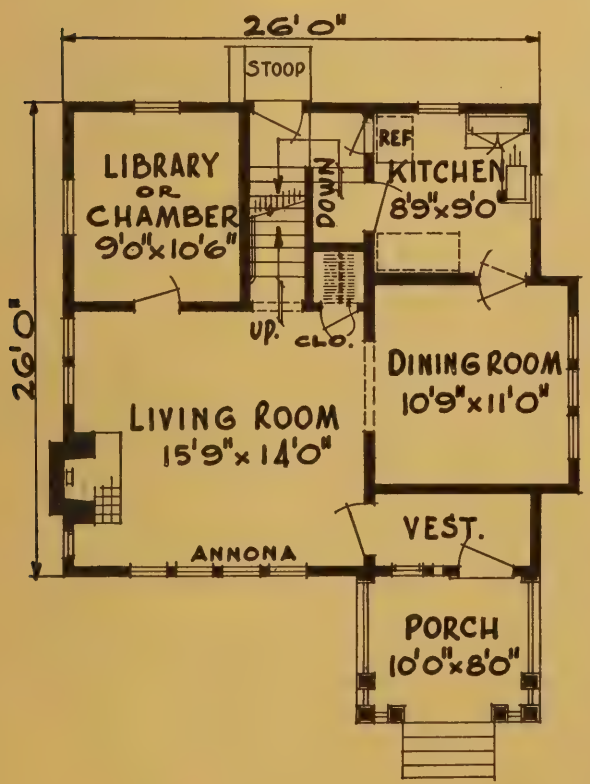
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



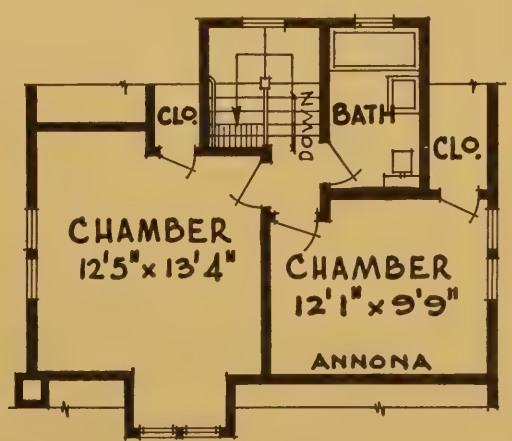
5 Rooms, Bath and Library

"The ANNONA"

26 Ft. Wide x 26 Ft. Deep



A DISTINCTIVE Home in the conventional style. The arrangement is perfect, the library off the living room deserving particular notice. Space saving closet fixtures are employed.



SIZES:

Extreme Width	30' 0"
Extreme Depth	40' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

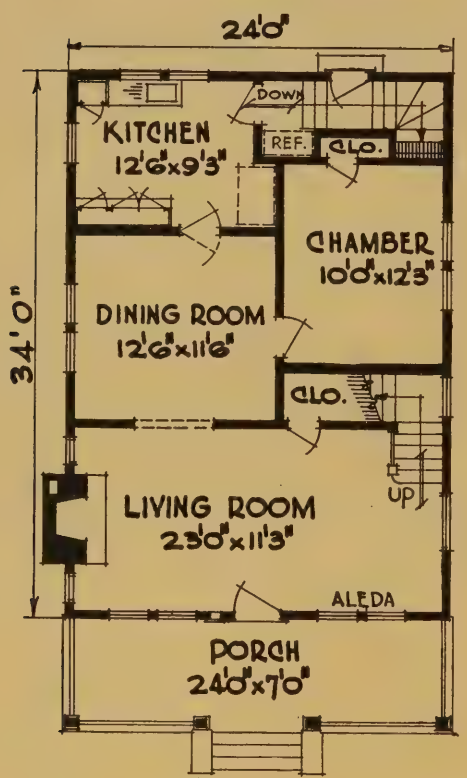
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



7 Rooms and Bath

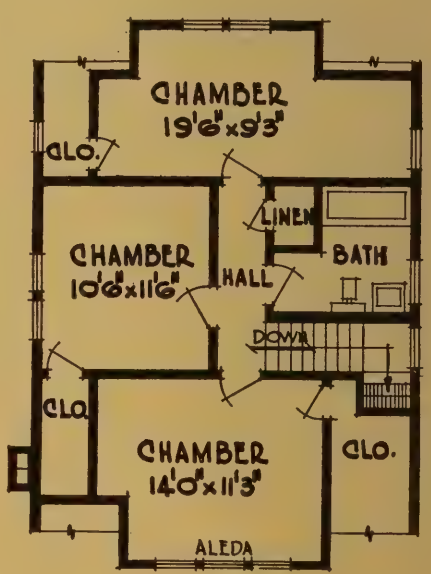
"The ALEDA"

24 Ft. Wide x 34 Ft. Deep



WHILE conventional in appearance, the "Aleda" is exceedingly liveable. The excellent room arrangement saves the housewife many steps. A large front porch is always appreciated.

A very popular, moderate priced home suitable to any community.



SIZES:

Extreme Width	27' 0"
Extreme Depth	45' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

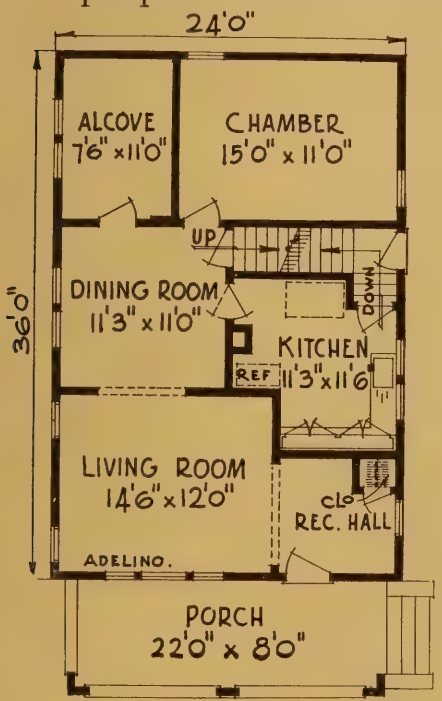


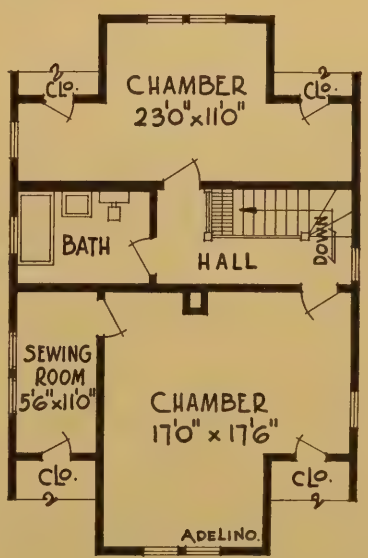
6 Rooms, Bath, Alcove and Sewing Room

"The ADELINO"

24 Ft. Wide x 36 Ft. Deep

A HOME means very much. To the majority of people it means the realization of wordly ambitions. Nothing should be left to chance. Every detail of construction, arrangement, etc., should be carefully considered. The more one studies the "Adelino" both within and without, the more he is taken by it.





EFFECTIVE COLOR SCHEMES ARE OBTAINED BY USE OF STAINED SHINGLES, BESIDES THEY PROVIDE THE MAXIMUM WARMTH FOR THE HOME.

SIZES:

Extreme Width	28' 6"
Extreme Depth	48' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

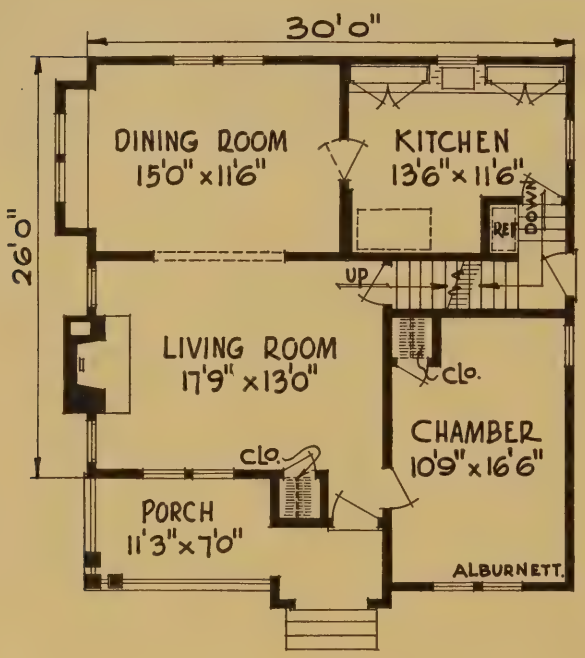
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



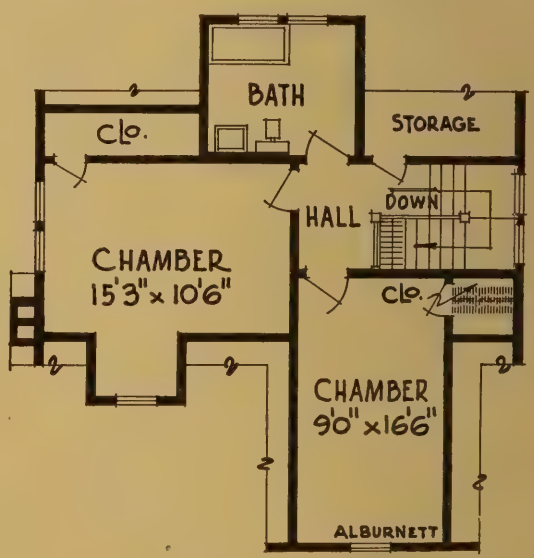
6 Rooms and Bath

"The ALBURNETT"

30 Ft. Wide x 26 Ft. Deep



TRIM, neat, clear-cut the "Alburnett" is a model little home. It affords the best in comfort and convenience at a very low cost. The upstairs arrangement deserves special notice. Large chambers, storage space and convenient closets are all carefully planned.



SIZES:

Extreme Width	34' 0"
Extreme Depth	38' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

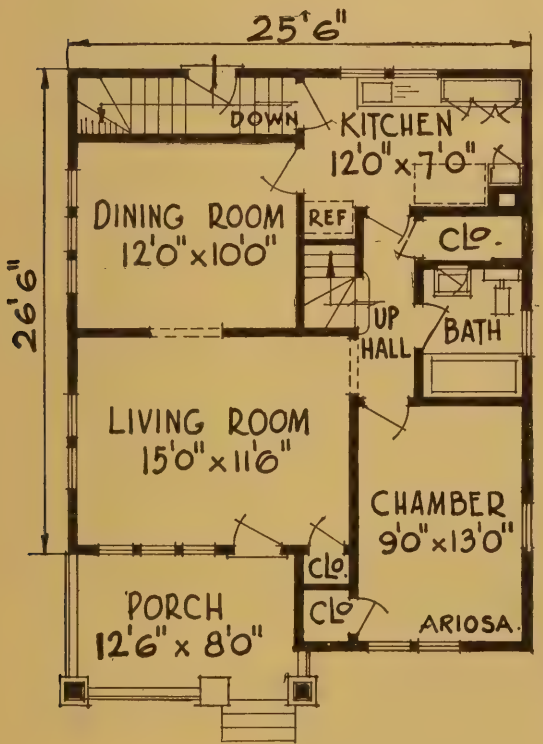
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



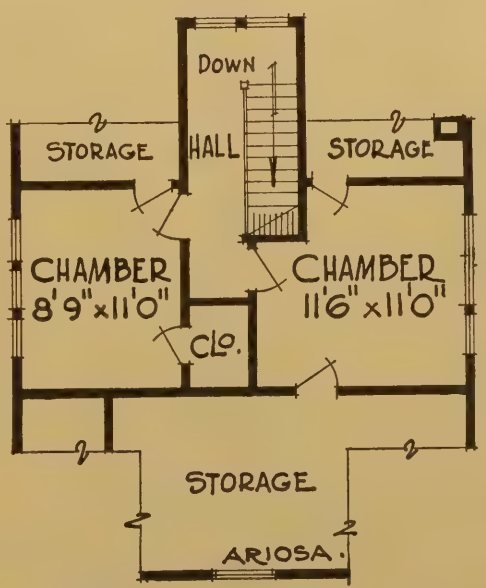
6 Rooms, Bath and Storage

"The ARIOSA"

25 Ft. 6 In. Wide x 32 Ft. Deep



THE "Ariosa" is an especially roomy and comfortable house. In studying the floor plan, you will find that all the rooms are of good size. Plenty of closets, and three large storage spaces will be noted. Then the combination of shingles and siding, makes the "Ariosa" most presentable.



SIZES:

Extreme Width	30' 0"
Extreme Depth	39' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

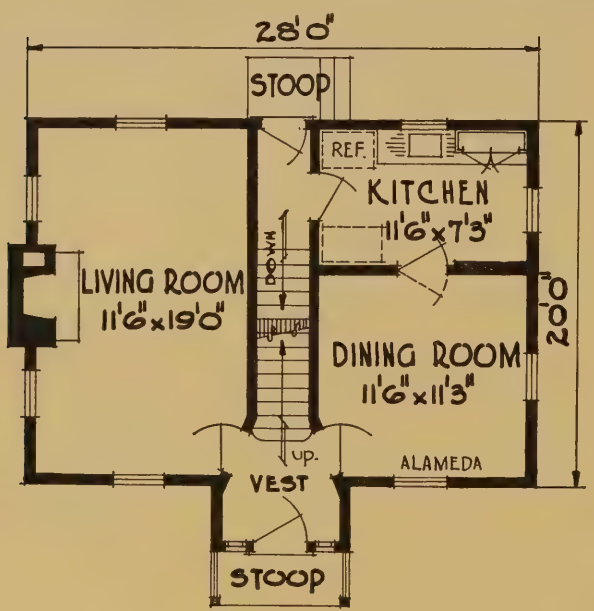
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



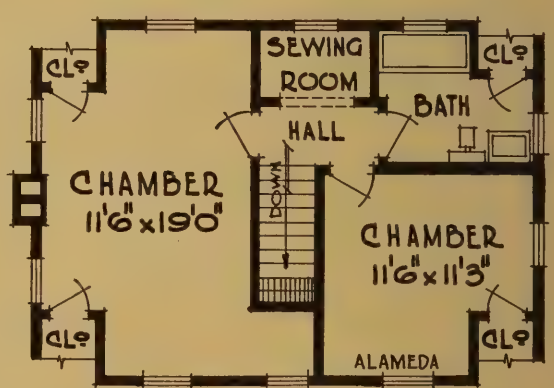
5 Rooms, Bath and Sewing Room

"The ALAMEDA"

28 Ft. Wide x 20 Ft. Deep



A SUBSTANTIAL, moderate priced frame house, embodying all modern comforts. By entering the living room from a corner one gets the full effect of the sweep of the room. A sewing room upstairs will please the housewife.



SIZES:

Extreme Width	30′ 0″
Extreme Depth	30′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

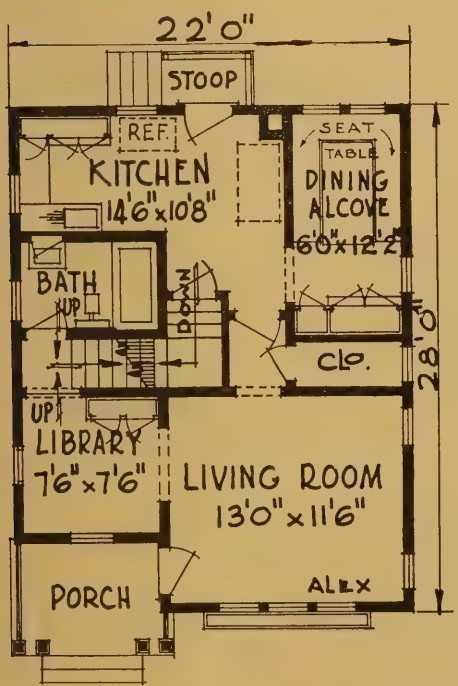
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



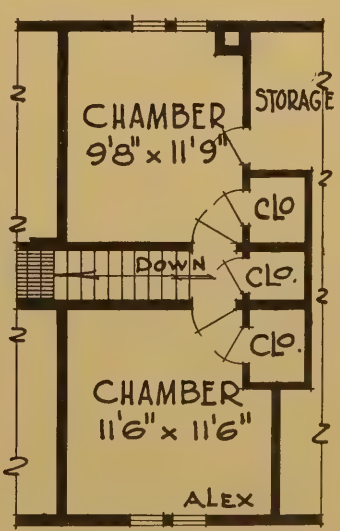
4 Rooms, Bath, Library and Dining Alcove

"The ALEX"

22 Ft. Wide x 28 Ft. Deep



THE architect of the "Alex" has achieved the maximum in appearance and comfort, at the minimum cost. A dining alcove, a large closet, a library and a roomy kitchen are among the downstairs features. And consider the large storage space on the second floor.



SIZES:

Extreme Width	24' 6"
Extreme Depth	34' 9"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

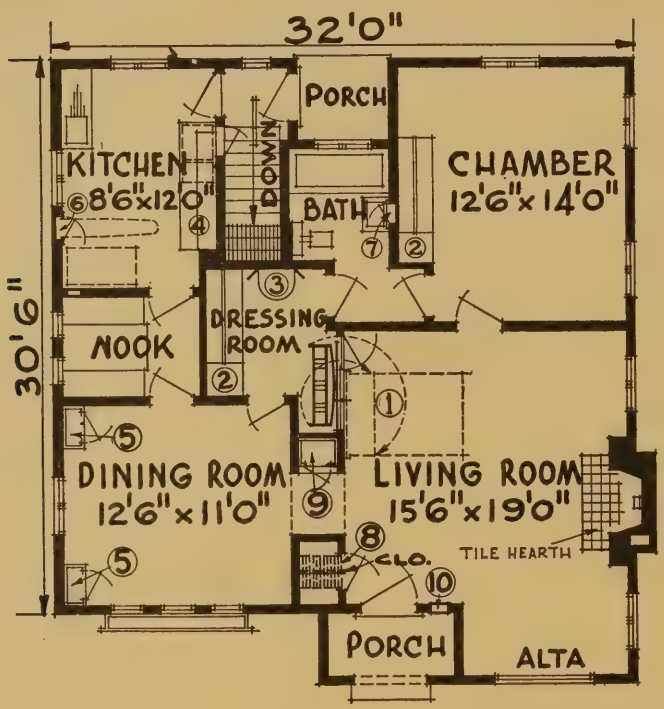
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath, Dining Nook and Dressing Room

"The ALTA"

32 Ft. Wide x 34 Ft. 6 In. Deep



AN ideal home for the small family. Four rooms with five room efficiency. The living room becomes an airy bed room at night. Do not overlook the convenience of the dressing room nor the practical efficiency of the kitchen.

KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Bed"
2—"Dressing Cabinet"
3—"Dressing Table"
4—"Combination Kitchen Cabinet and Refrigerator"
5—"China Cabinets"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
8—"Adjustable Coat Hangers"
9—"Telephone Cabinet"
10—"Built-in Mail Box"

SIZES:

Extreme Width	33' 6"
Extreme Depth	36' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7'0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

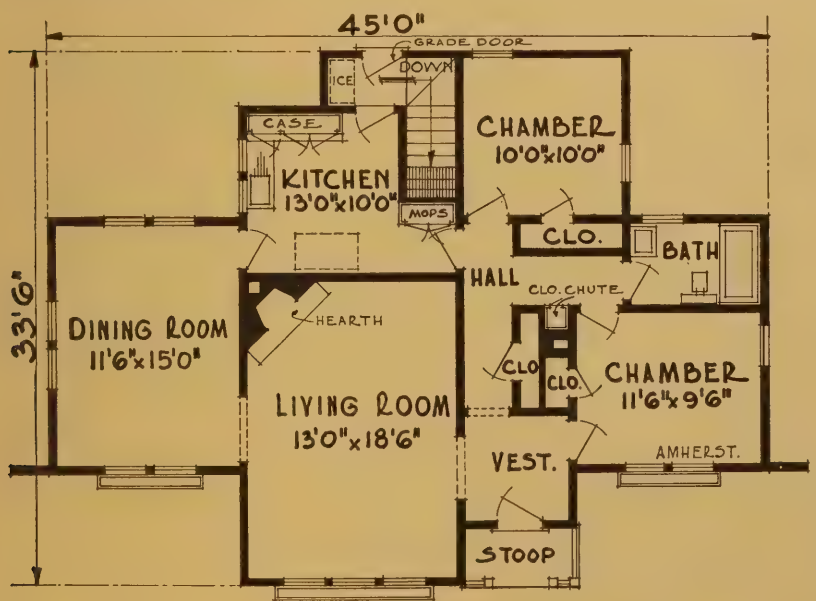


5 Rooms and Bath

"The AMHERST"

45 Ft. Wide x 33 Ft. 6 in. Deep

A HOME like the Amherst leaves neither room for discontent nor lonesomeness. The housewife will appreciate the simple convenience and economy of all rooms on one floor. The rooms are large and well lighted. The exterior is attractive and suitable to any location.



CORRECT PLANS

are used by the practical builder. These plans are guaranteed to be accurate. They include full details of construction.

SIZES:

Extreme Width	**50' 0"**
Extreme Depth	**34' 6"**
Main Floor Ceiling	**8' 6"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

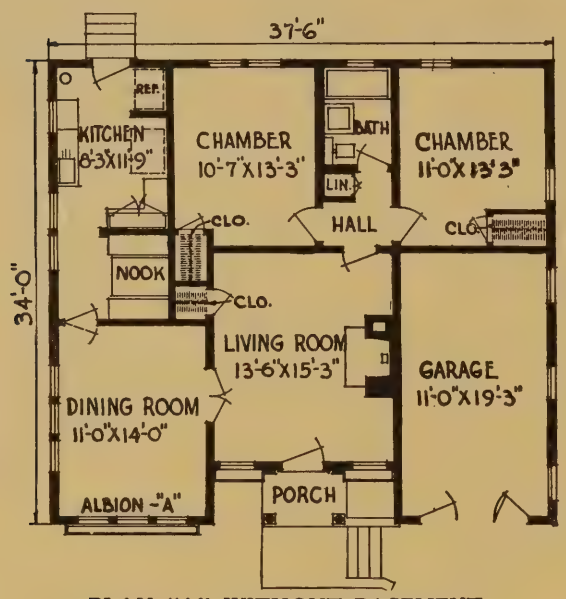
HOME BUILDERS CATALOG CO
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Garage

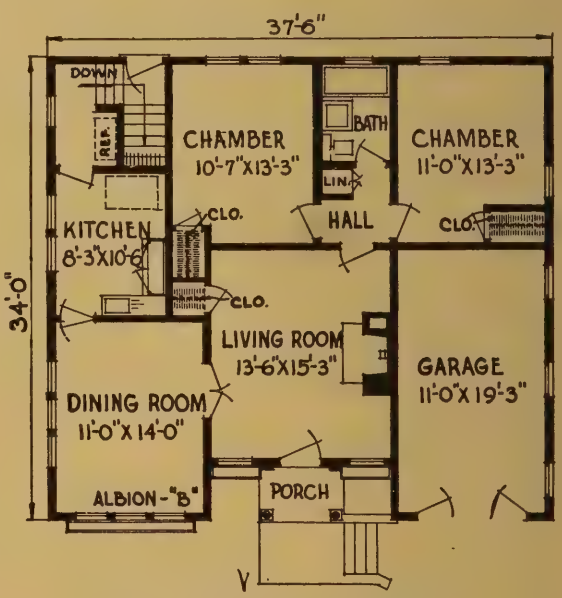
"The ALBION"

37 Ft. 6 in. Wide x 34 Ft. Deep



PLAN "A" WITHOUT BASEMENT

THE "Albion" satisfies your desire for a beautiful home and solves your domestic problems at the same time. By combining the garage with the home, money is saved and convenience added. Space saving closet fixtures are used.



PLAN "B" WITH BASEMENT

SIZES:

Extreme Width	40' 6"
Extreme Depth—Plan "A"	42' 0"
Extreme Depth—Plan "B"	39' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**..... **$20.00**

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

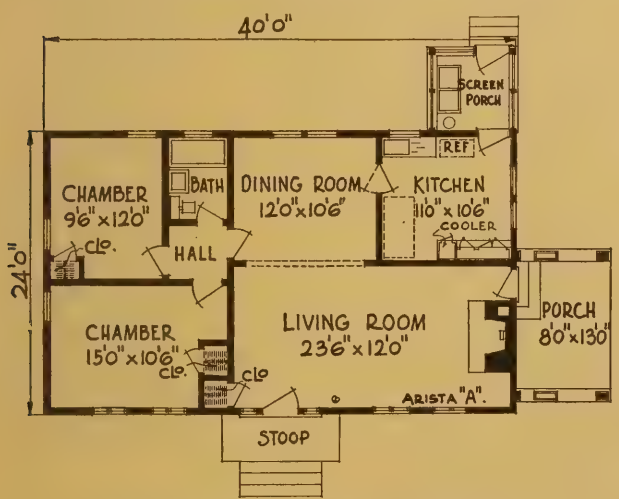


5 Rooms and Bath

"The ARISTA"

40 Ft. Wide x 24 Ft. Deep

FROM the standpoint of sheer beauty there is nothing like a white home. In the sunlight it is radiant and the winter snow only seems to make it more white. Not only is the "Arista" beautiful, but it is a cheerful home to live in.



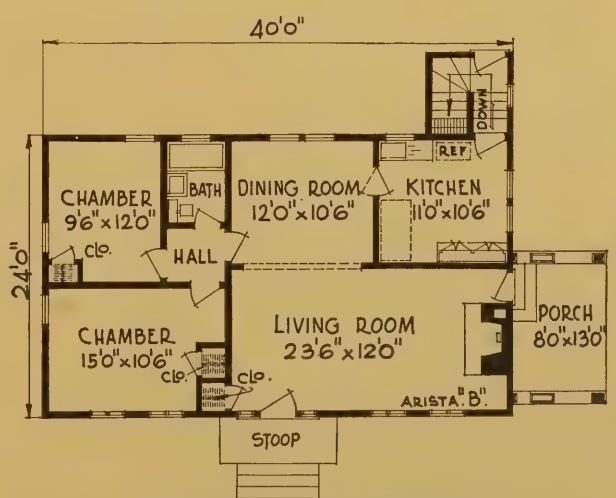
PLAN "A"—WITHOUT BASEMENT

SIZES:

Extreme Width	52' 0"
Extreme Depth	39' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

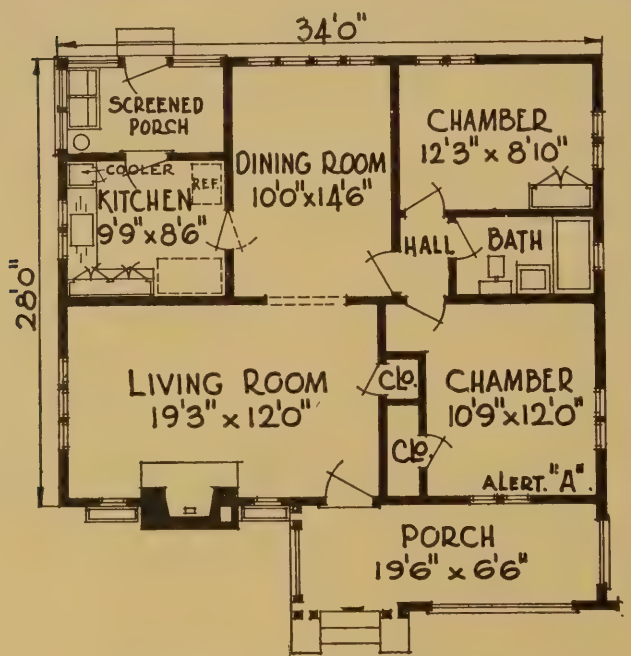
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALERT"

34 Ft. Wide x 28 Ft. Deep



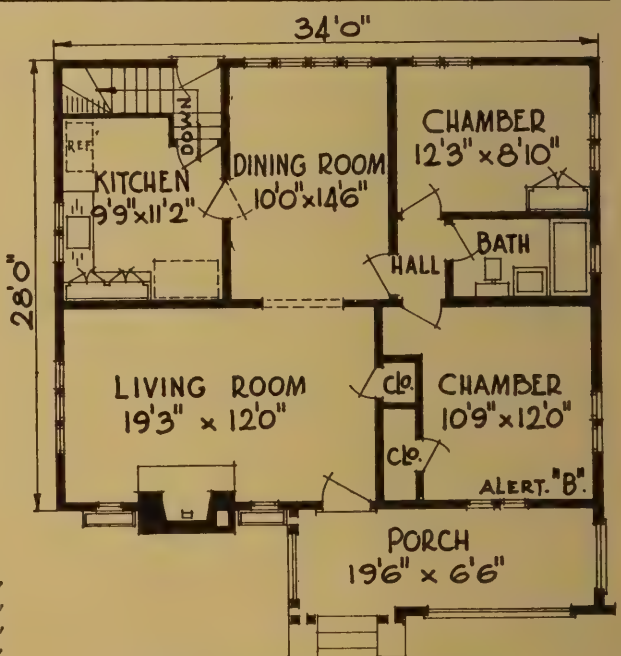
PLAN "A"—WITHOUT BASEMENT

SIZES:

Extreme Width	36' 6"
Extreme Depth—Plan "A"	39' 0"
Extreme Depth—Plan "B"	38' 6"
Main Flooring Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

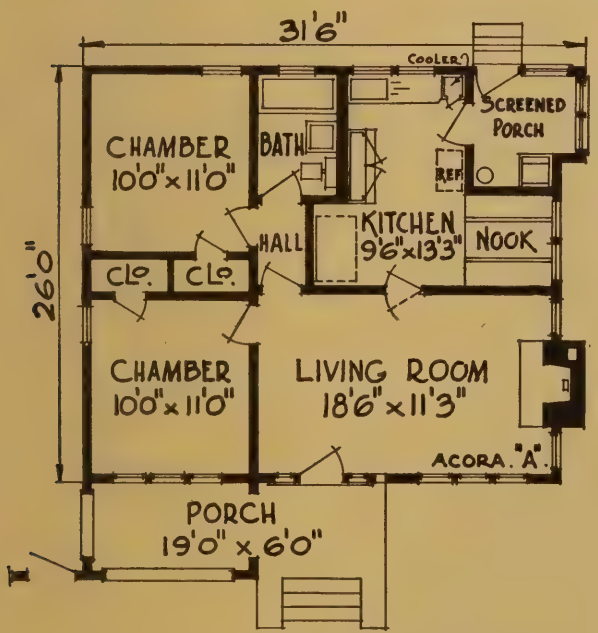
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Nook

"The ACORA"

31 Ft. 6 In. Wide x 26 Ft. Deep



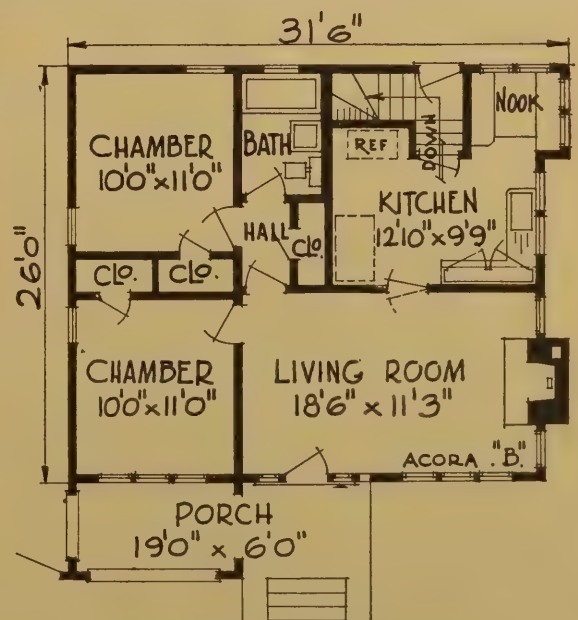
PLAN "A"—WITHOUT BASEMENT

SIZES:

Extreme Width	38' 6"
Extreme Depth—Plan "A"	38' 0"
Extreme Depth—Plan "B"	37' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



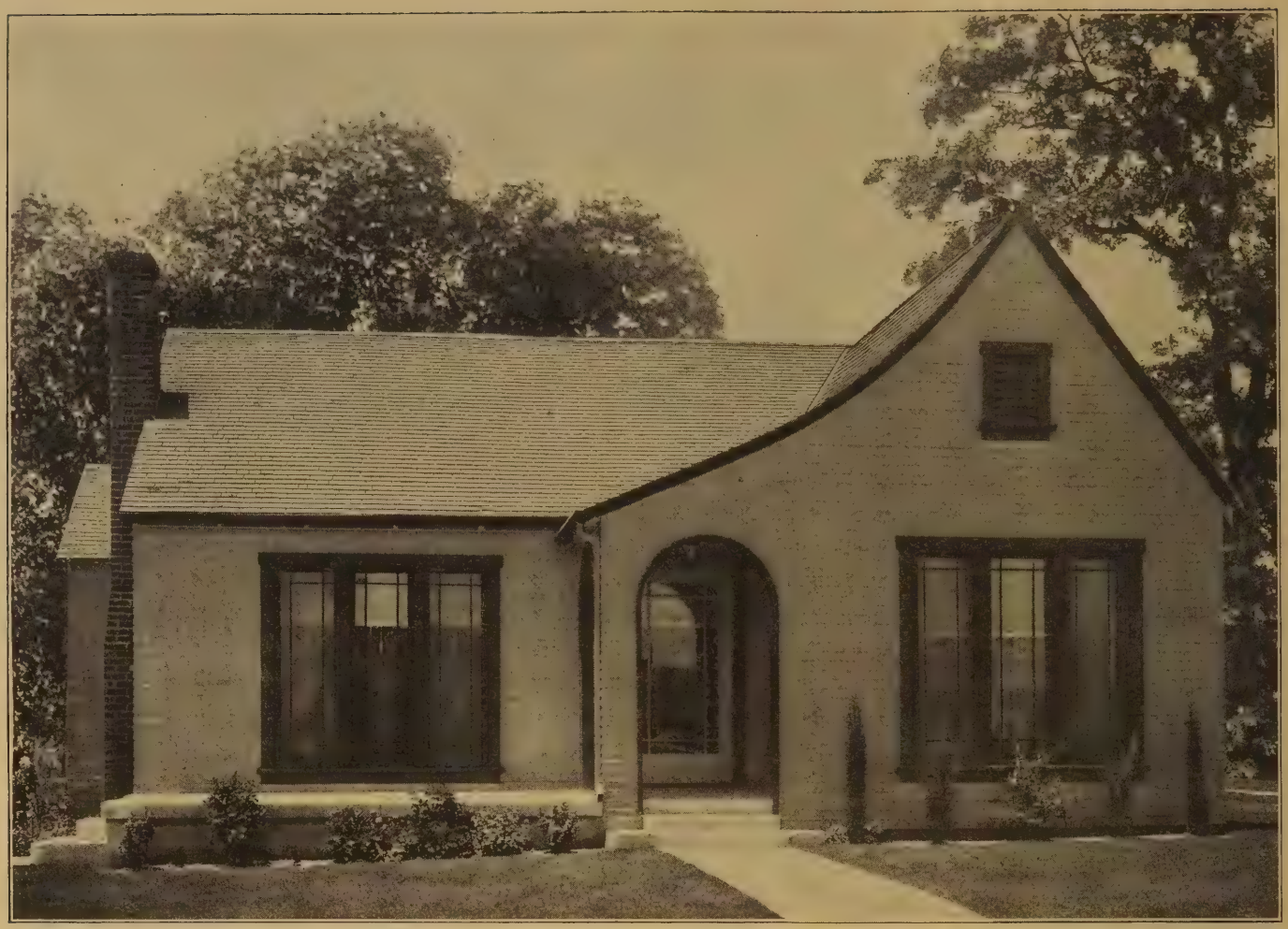
PLAN "B"—WITH BASEMENT

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

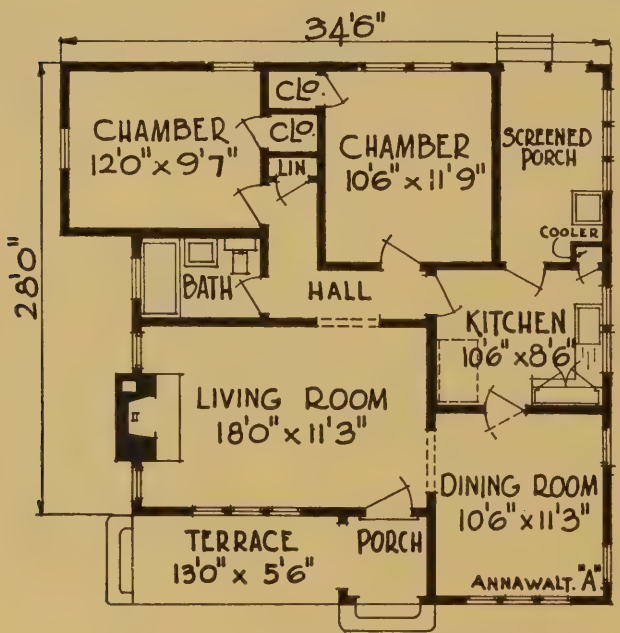
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



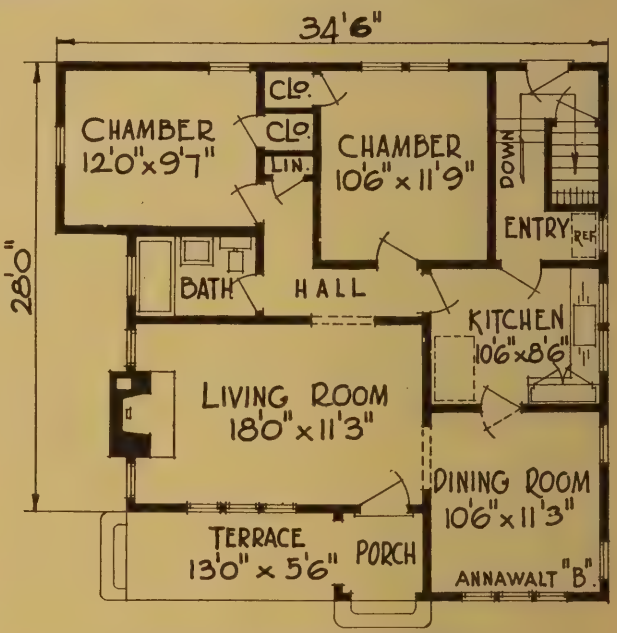
5 Rooms and Bath

"The ANNAWALT"

34 Ft. 6 In. Wide x 28 Ft. Deep



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	35' 6"
Extreme Depth—Plan "A"	37' 0"
Extreme Depth—Plan "B"	36' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

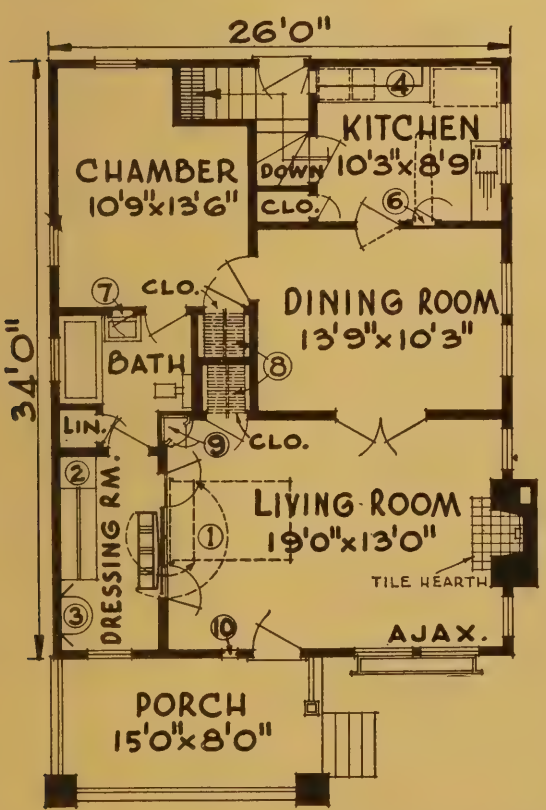
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Dressing Room

"The AJAX"

26 Ft. Wide x 34 Ft. Deep



A PLEASING bungalow home of four rooms with five room efficiency. Living room at day, bed room at night, made possible by using a full size disappearing bed. The bath room connects both the chamber and the concealed dressing room. The kitchen, though small, is made very convenient by the use of space saving devices.

KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Bed"
2—"Dressing Cabinet"
3—"Dressing Table"
4—"Combination Kitchen Cabinet and Refrigerator"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
8—"Adjustable Clothes Hangers"
9—"Telephone Cabinet"
10—"Built-in Mail Box"

SIZES:

Extreme Width	30' 9"
Extreme Depth	46' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

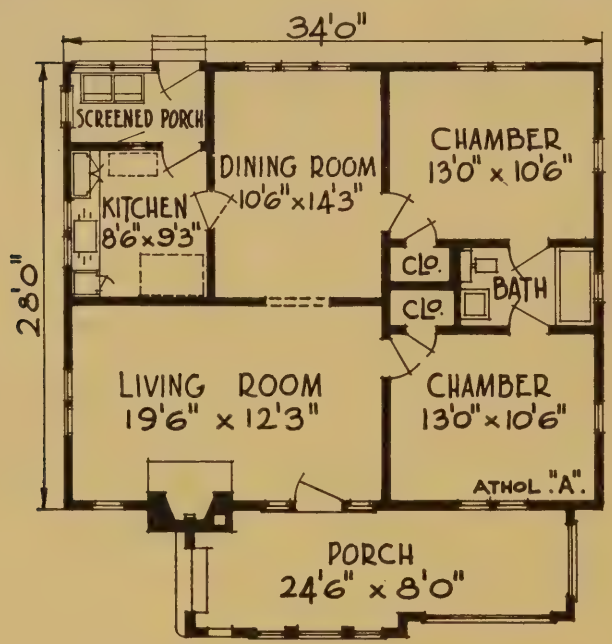
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ATHOL"

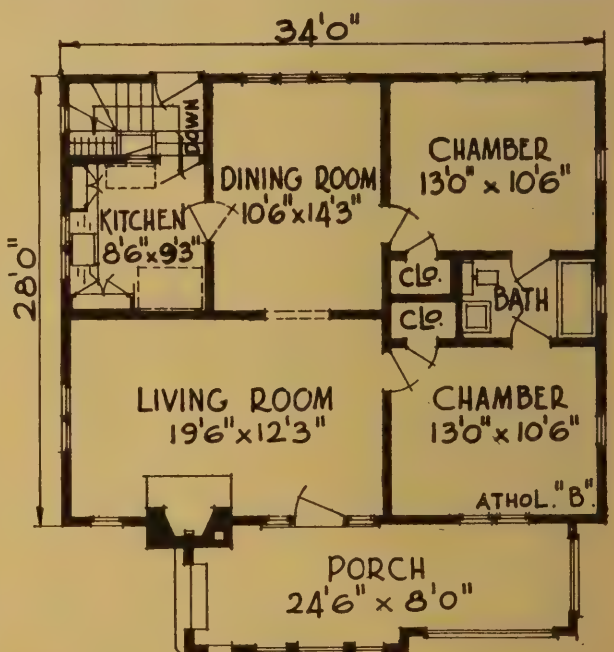
34 Ft. Wide x 28 Ft. Deep



PLAN "A"—WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	37' 0"
Extreme Depth	38' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.

Chicago.—Rochester.—Detroit.—New York.

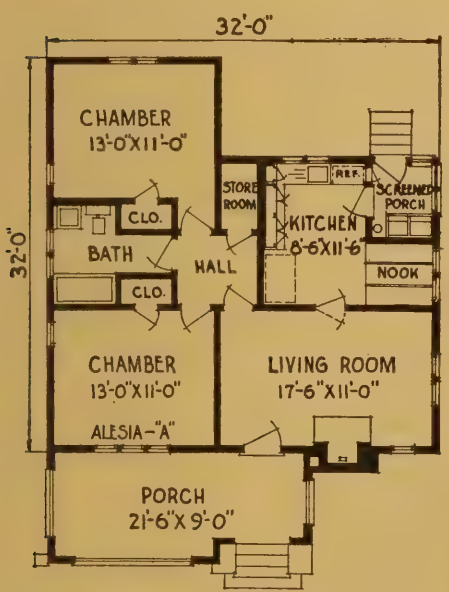


4 Rooms, Bath and Dining Nook

"The ALESIA"

32 Ft. Wide x 32 Ft. Deep

THE stuccoed entrance, and porch combines excellently with the siding on main walls. The chimney is in good taste. Every kind of approved conveniences are shown, from kitchen utilities to the breakfast nook. Be sure and look at the small screened porch in rear.



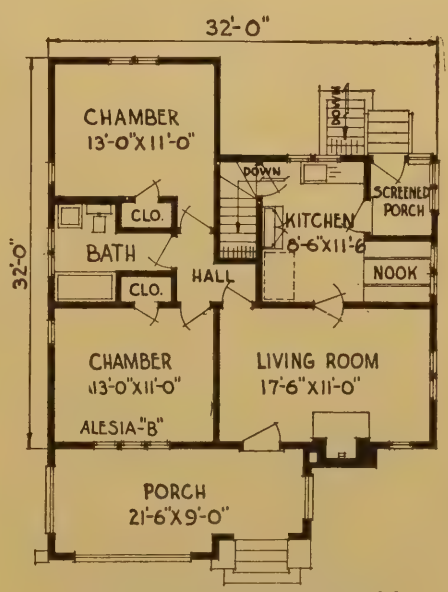
PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	36' 0"
Extreme Depth	45' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

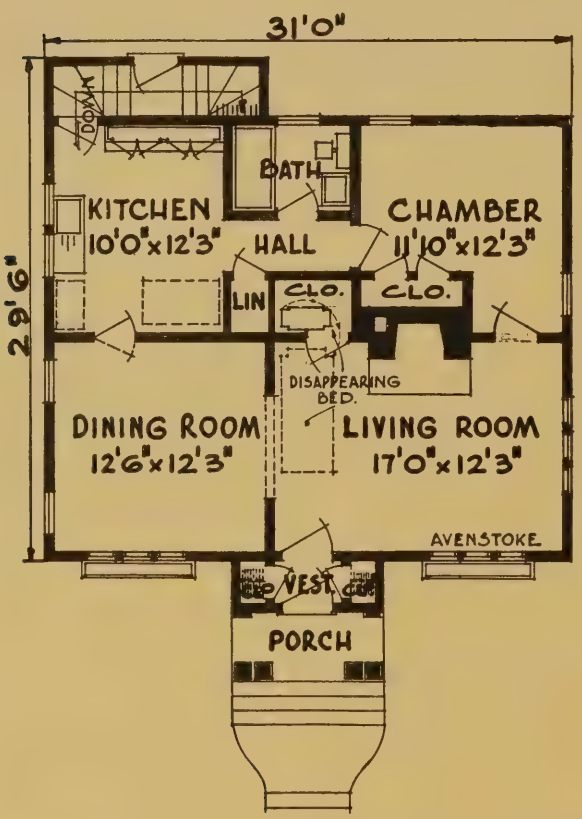
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms and Bath

"The AVENSTOKE"

31 Ft. Wide x 26 Ft. Deep



TRIM of line, resplendent in its whiteness, the "Avenstoke" stands out from its neighbors. Shutters and flower boxes give the necessary touch of colour to the exterior. The rooms are properly distributed to allow the greatest space in the specified dimensions. By using a disappearing bed in the front room a chamber is practically added. Space saving closet fixtures and a separate linen closet are found.

SIZES:

Extreme Width	**32' 0"**
Extreme Depth	**39' 0"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

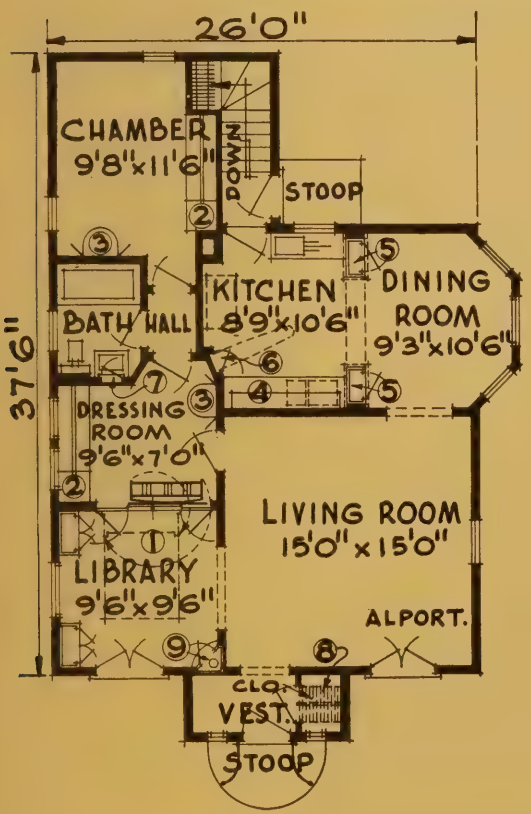
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Dressing Room

"The ALPORT"

26 Ft. Wide x 37 Ft. 6 In. Deep



THERE is very real charm about this design, for its proportion and general handling give it a character that is decidedly attractive.

The "Alport" is an efficiency home in every sense of the word. The floor plan shows five rooms but at night the library is converted into a bedroom by the use of a disappearing bed.

KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Bed"
2—"Dressing Cabinets"
3—"Dressing Table"
4—"Combination Kitchen Cabinet and Refrigerator"
5—"China Cabinets"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
8—"Adjustable Clothes Hangers"
9—"Telephone Cabinet"

SIZES:

Extreme Width	30' 6"
Extreme Depth	47' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

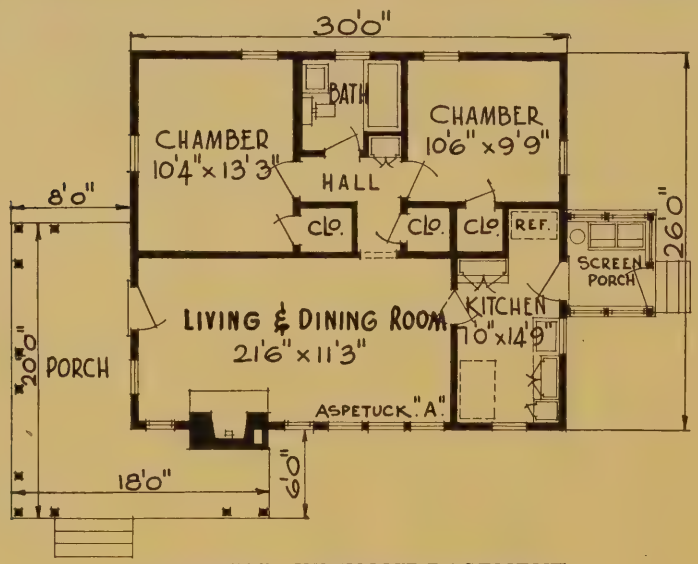
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms and Bath

"The ASPETUCK"

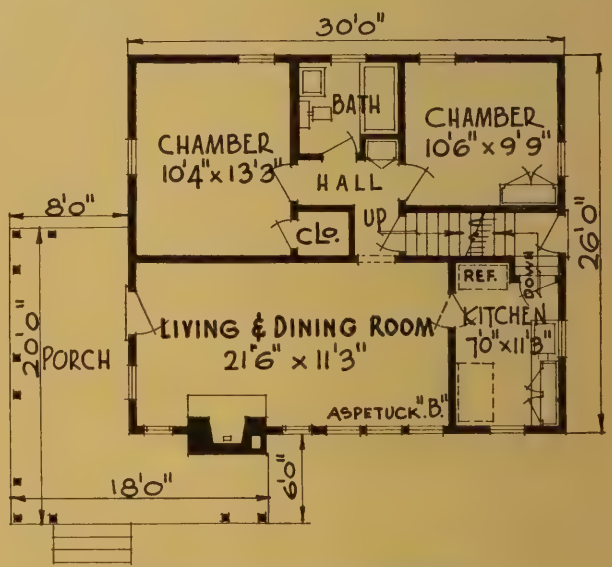
30 Ft. Wide x 26 Ft. Deep



PLAN "A"—WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width—Plan "A"	**47' 0"**
Extreme Width—Plan "B"	**40' 6"**
Extreme Depth	**36' 6"**
Main Floor Ceiling	**8' 6"**
Basement Ceiling—Plan "B"	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

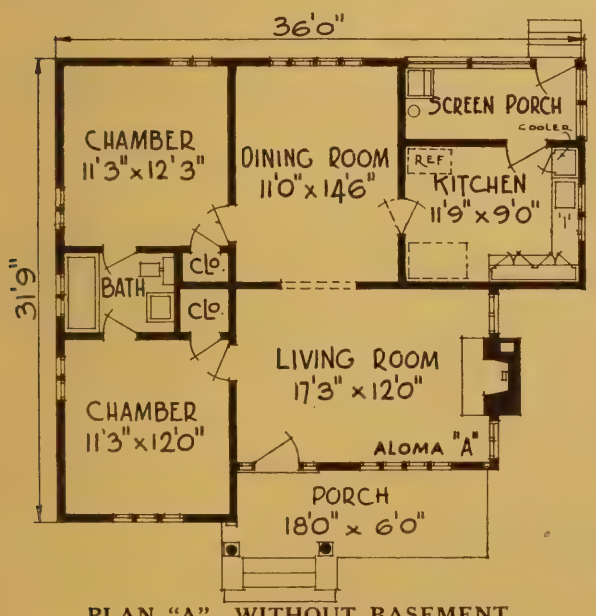
"The ALOMA"

36 Ft. Wide x 31 Ft. 9 In. Deep

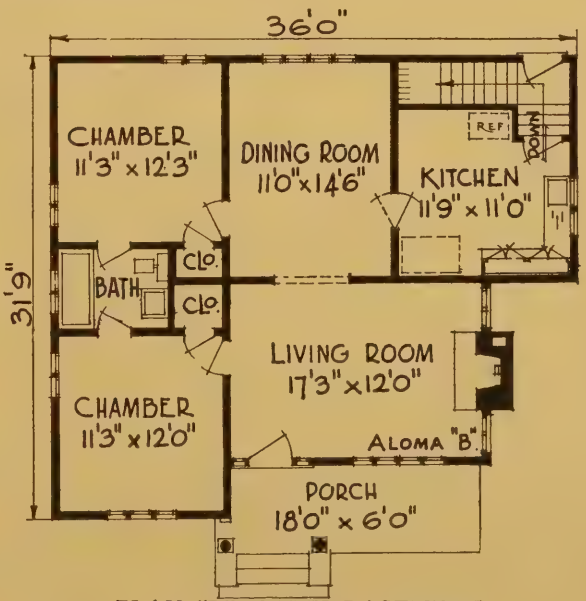
THIS beautiful picture tells its own story. Modern in every respect. Careful study of the interior shows large rooms all laid out in a convenient manner.

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	36' 6"
Extreme Depth Plan "A"	39' 6"
Extreme Depth Plan "B"	37' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling Plan "B"	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design $20.00
One (1) Classified Guide (16 Pages) for listing all Material Items.....
One (1) Set of Specifications and Two (2) Blank Contract Forms.....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



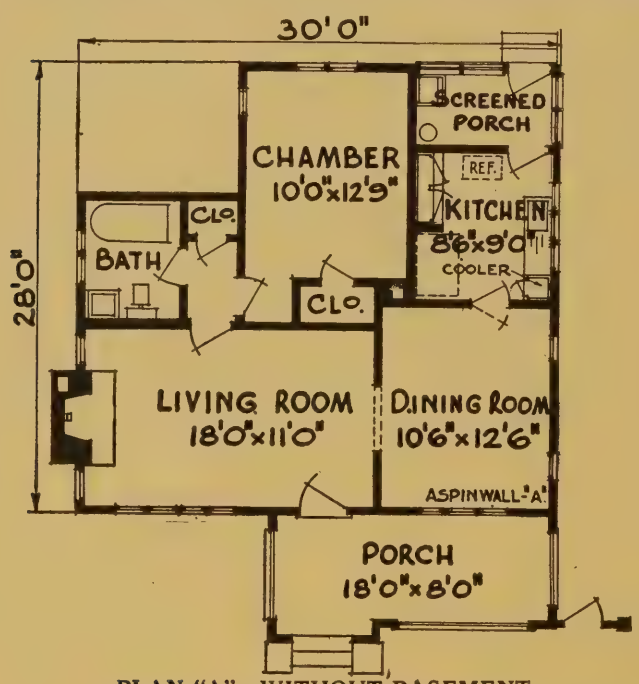
4 Rooms and Bath

"The ASPINWALL"

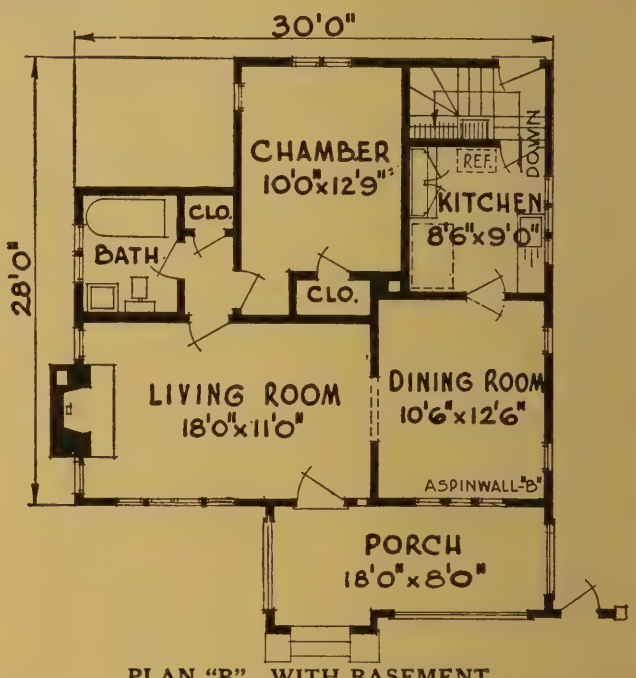
30 Ft. Wide x 28 Ft. Deep

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	37' 0"
Extreme Depth—Plan "A"	40' 0"
Extreme Depth—Plan "B"	39' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

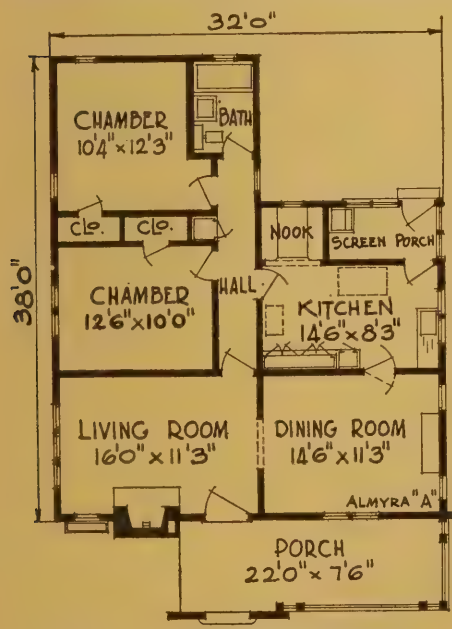


5 Rooms, Bath and Dining Nook

"The ALMYRA"

32 Ft. Wide x 38 Ft. Deep

UNUSUAL and attractively so. The peaked entrance puts the "Almyra" in a class by itself. Five rooms, bath and dining nook, each in its proper place makes the inside commodious and conveenient. Insulating sheathing is used in the main structure.



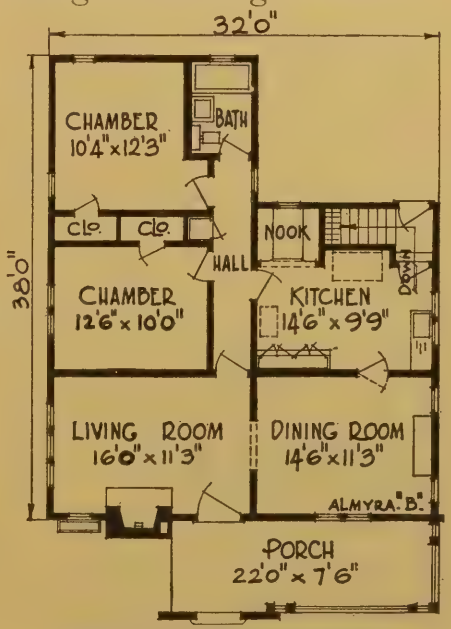
PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	38' 6"
Extreme Depth	48' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

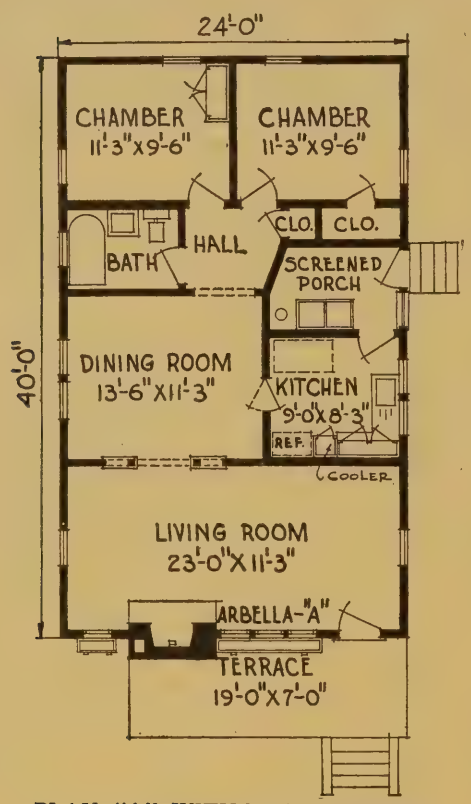
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ARBELLA"

24 Ft. Wide x 40 Ft. Deep



PLAN "A" WITHOUT BASEMENT

IT is hard to discover just wherein the charm of the "Arbella" lies. Perhaps it is in the big chimney, perhaps in the dark shingles At any rate, one is charmed with its rustic beauty, outside and in.

IMPORTANT

When ordering plans of this design state whether wanted with or without baseemnt.

SIZES:

Extreme Width—Plan "A"	30' 0"
Extreme Width—Plan "B"	28' 6"
Extreme Depth	53' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"



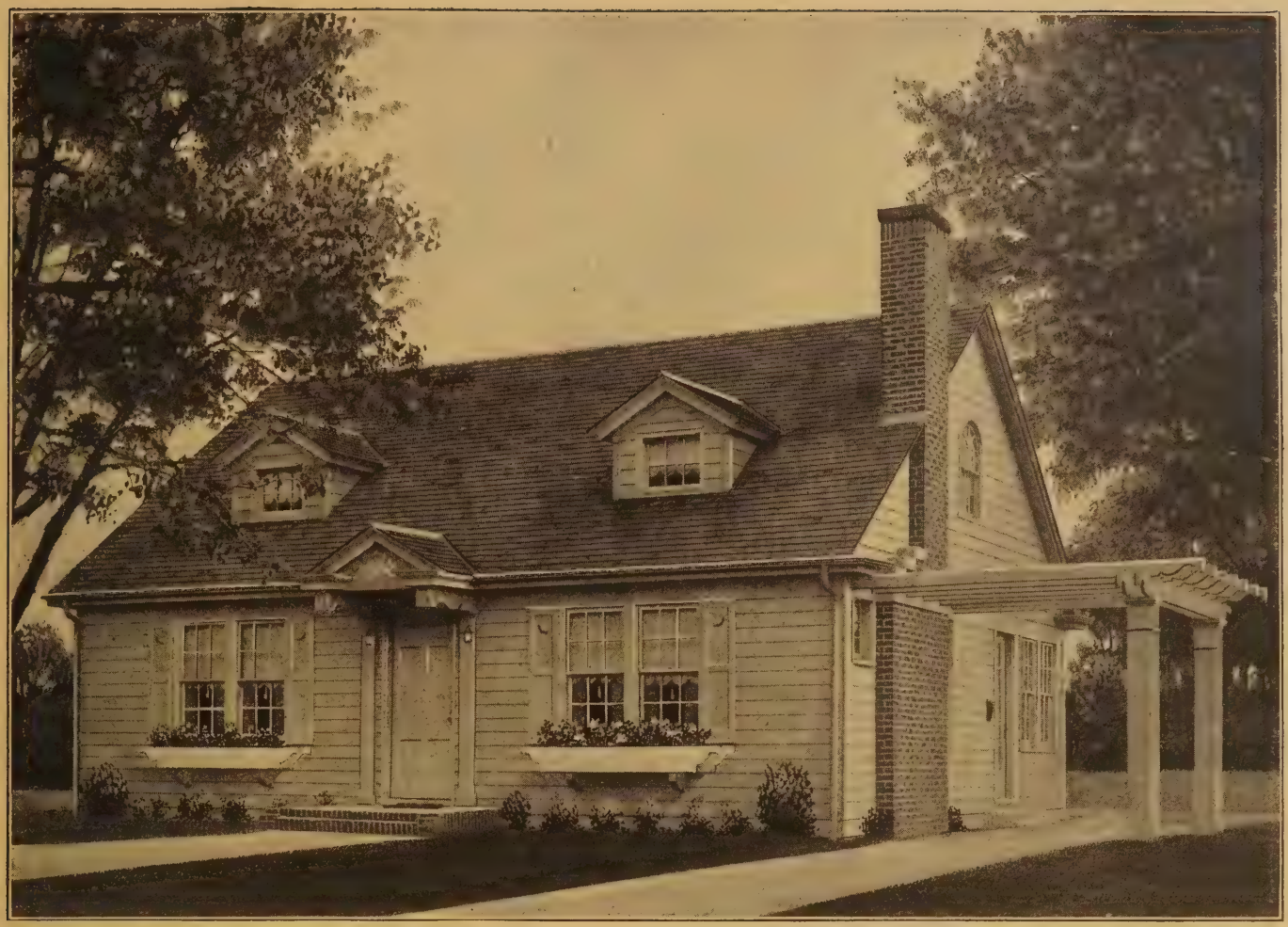
PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

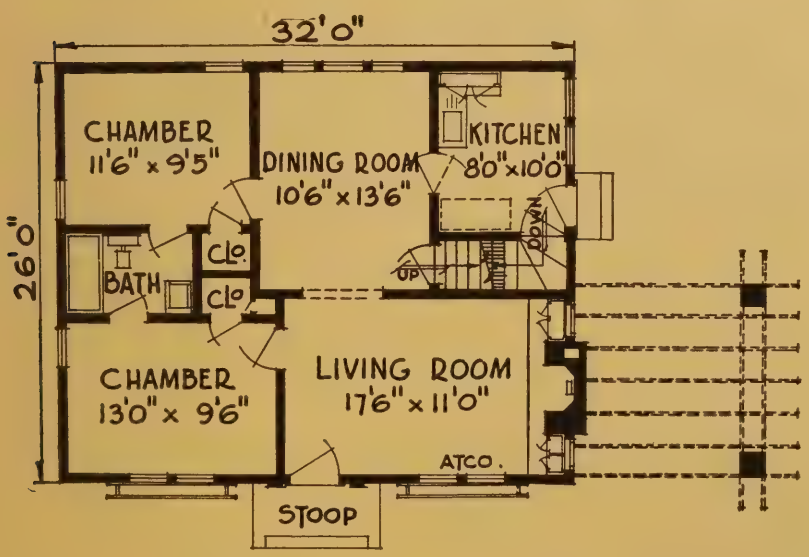
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ATCO"

32 Ft. Wide x 26 Ft. Deep



WHEN a man is looking for a new home he desires beauty, permanence and comfort above all. The "Atco" offers all these things. The porte cochere is a happy addition. Be sure and take a look at the living room with its fireplace flanked by bookcases. There is an attic for storage also.

SIZES:

Extreme Width	**46′ 3″**
Extreme Depth	**31′ 3″**
Main Floor Ceiling	**8′ 6″**
Basement Ceiling	**7′ 0″**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

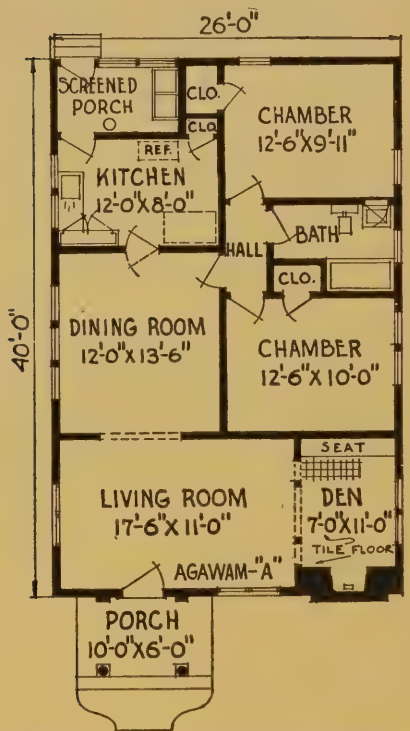
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Den

"The AGAWAM"

26 Ft. Wide x 40 Ft. Deep



PLAN "A" WITHOUT BASEMENT

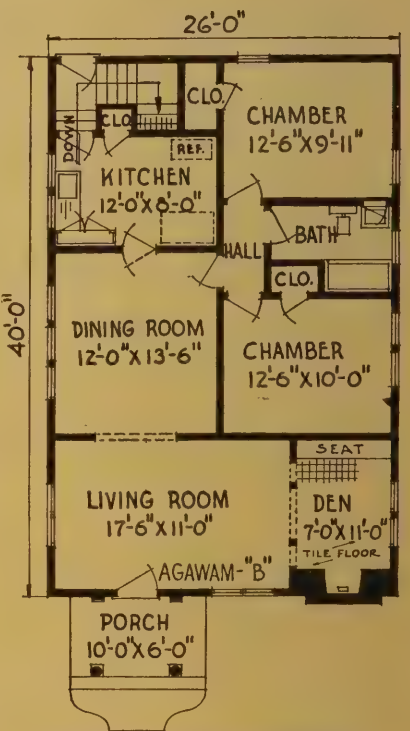
ESPECIALLY trim, and clean cut, the "Agawam" is in every detail attractive. The columned porch lends dignity, and the massive chimney, the feeling of stability. Inside we see a den that is unbeatable, with its fireplace, tile floor and built in seat.

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	29' 0"
Extreme Depth	52' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

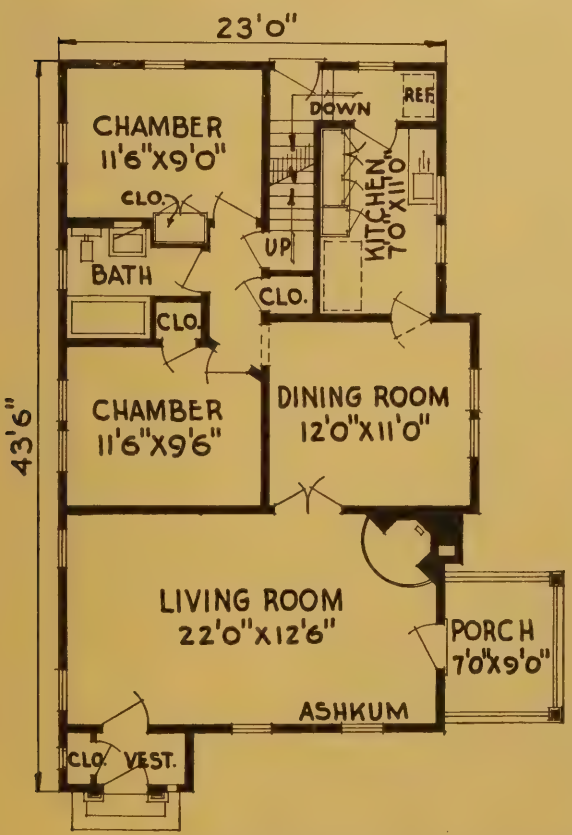
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ASHKUM"

25 Ft. Wide x 43 Ft. 6 in. Deep



A HOME becoming in the best localities, the "Ashkum" possesses well defined refinement. Such features as the decorative entrance and porch on side need only to be seen to be appreciated. A bungalow that is moderate in price yet eminently satisfying to live in. The fireplace in the corner of the living room sets the room off in perfect taste.

HEAVY STAINED SHINGLES BLEND EFFECTIVELY WITH FOLIAGE AND LANDSCAPE, AND PRODUCE THEREBY A RUSTIC SIMPLICITY NOT OTHERWISE OBTAINABLE

SIZES:

Extreme Width	31' 6"
Extreme Depth	46' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

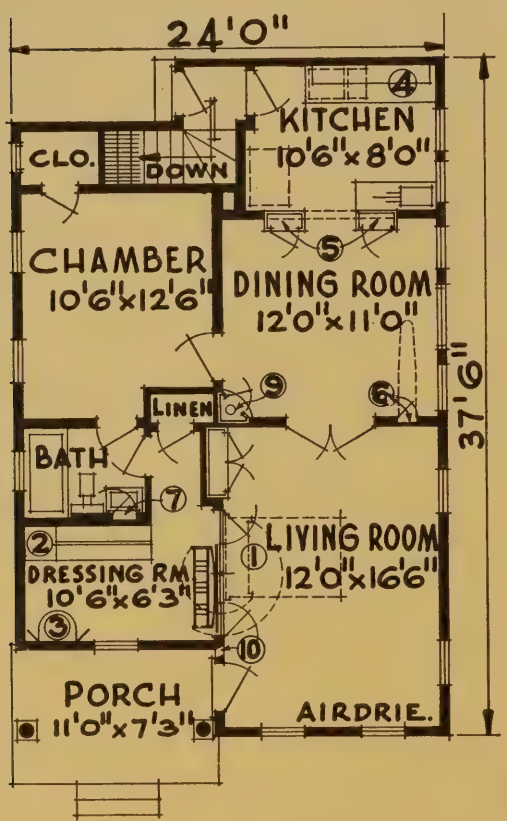
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Dressing Room

"The AIRDRIE"

24 Ft. Wide x 37 Ft. 6 In. Deep



THE tendency today among families of moderate incomes is toward homes with no more rooms than necessary, these being planned as conveniently and as efficiently as possible.

The "Airdrie" meets these requirements by offering four rooms with five room efficiency. Every bit of space is utilized thruout the entire home.

KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Bed"
2—"Dressing Cabinet"
3—"Dressing Table"
4—"Combination Kitchen Cabinet and Refrigerator"
5—"China Cabinets"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
9—"Telephone Cabinet"
10—"Built-in Mail Box"

SIZES:

Extreme Width	25' 6"
Extreme Depth	42' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

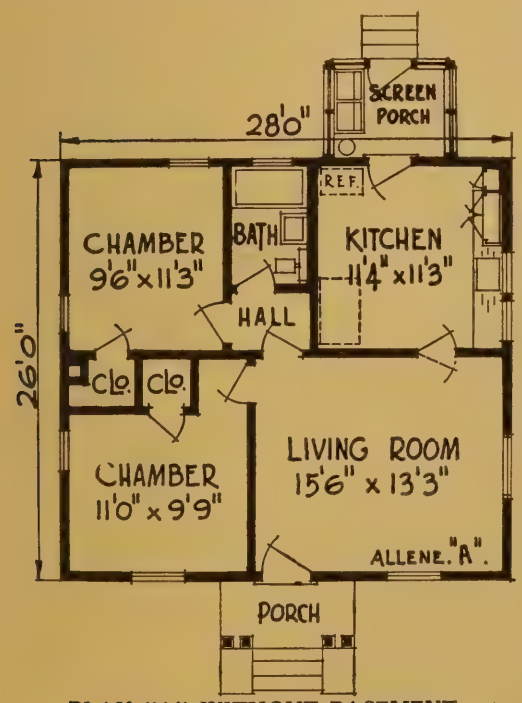


4 Rooms and Bath

"The ALLENE"

28 Ft. Wide x 26 Ft. Deep

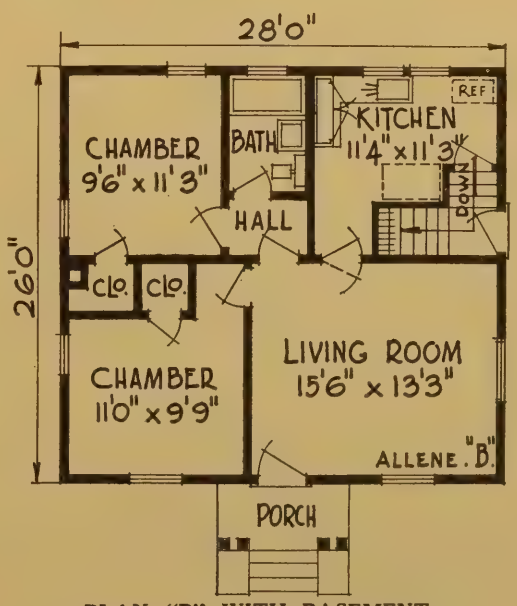
WHITE, neat and trim, the "Allene" attracts the most fastidious. Study for a moment the floor plan, and see how the architect has achieved maximum space and comfort from the limited size of the bungalow. Very inexpensive to build.



PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B" WITH BASEMENT

SIZES:

Extreme Width	31' 0"
Extreme Depth—Plan "A"	41' 6"
Extreme Depth—Plan "B"	34' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

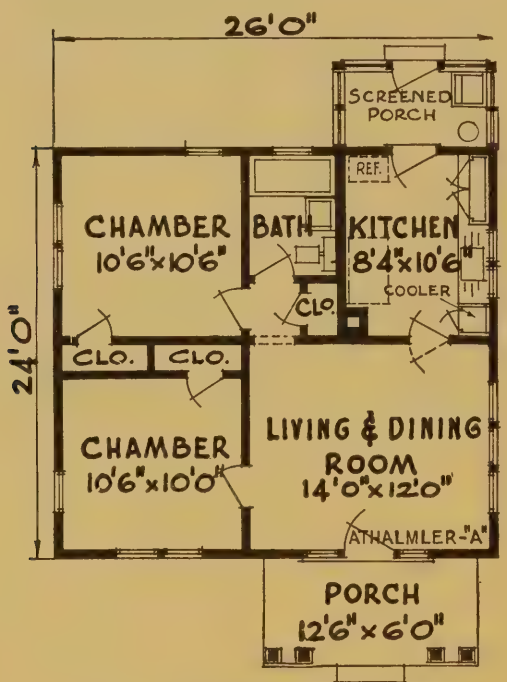


4 Rooms and Bath

"The ATHALMLER"

26 Ft. Wide x 24 Ft. Deep

IT is unusual to find such a well planned and attractive bungalow at such a moderate cost. The architect has proven that a large expense is not a requisite of a beautiful home. The screened porch in back deserves special consideration.



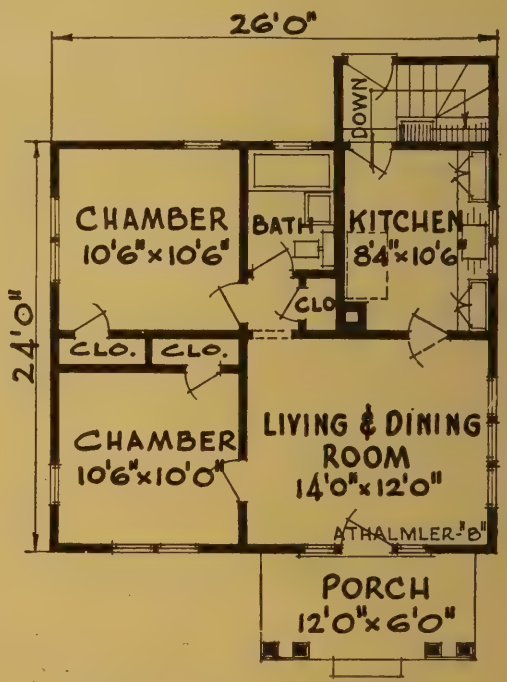
PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width ....29' 0"
Extreme Depth ....37' 6"
Main Floor Ceiling.. 9' 0"
Basement Ceiling
Plan "B" .....7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets Blue-Print Working Plans for above Design..... $20.00
One (1) Classified Guide (16 Pages) for listing all Material Items.....
One (1) Set of Specifications and Two (2) Blank Contract Forms.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



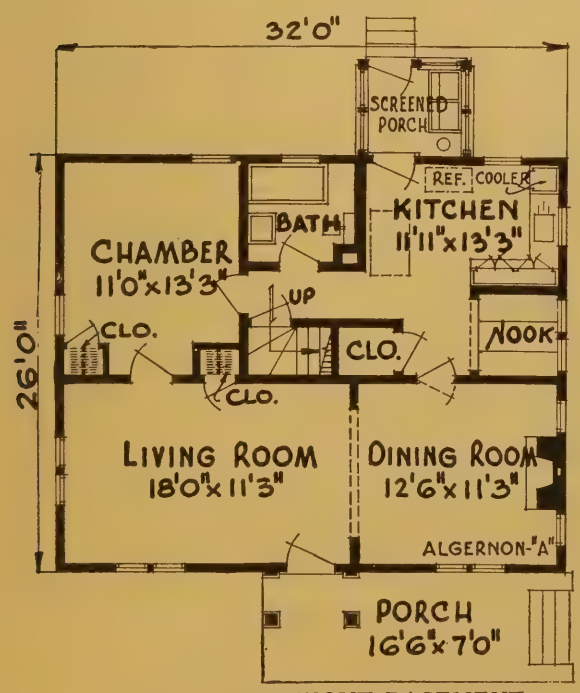
4 Rooms, Bath and Dining Nook

"The ALGERNON"

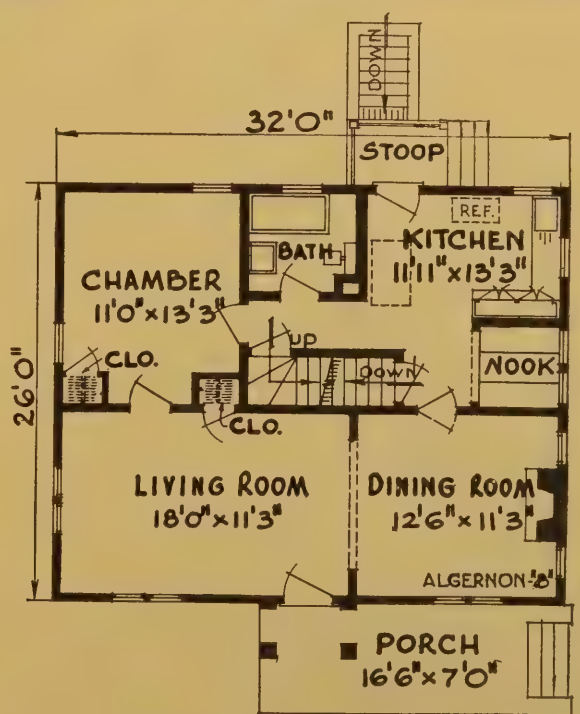
32 Ft. Wide x 26 Ft. Deep

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	37' 0"
Extreme Depth—Plan "A"	41' 6"
Extreme Depth—Plan "B"	43' 0"
Main Flooring Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

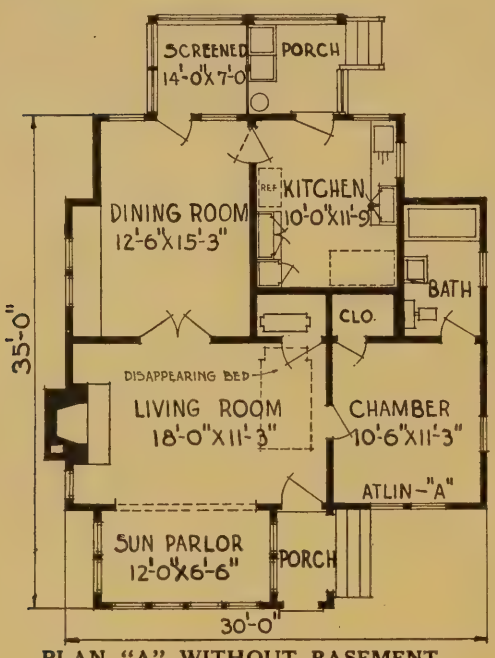


4 Rooms, Bath and Sun Parlor

"The ATLIN"

30 Ft. Wide x 35 Ft. Deep

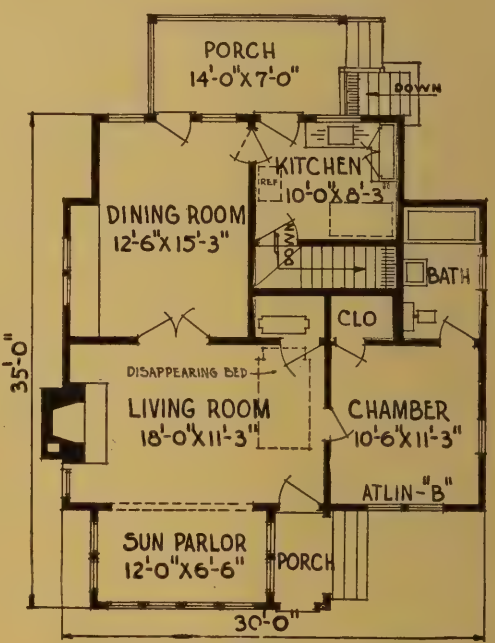
A BUNGALOW of unique appearance and interestingly so. The "Atlin" is very reasonable to build mainly due to the architects' ingenuity and economy. The interior shows these qualities in the use of a disappearing bed in the living room and the general utilization of all space.



PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B" WITH BASEMENT

SIZES:

Extreme Width	33' 6"
Extreme Depth	45' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**..... **$20.00**

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

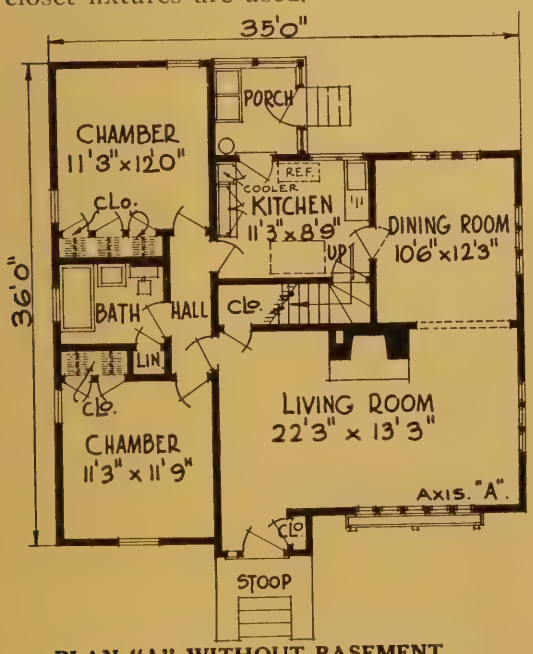


5 Rooms and Bath

"The AXIS"

35 Ft. Wide x 36 Ft. Deep

UPON analyzing we discover that the varied front of the "Axis" gives it its charm. The entrance, shutters, roof angles are all interesting individually, but together they are superb. Either floor plan, with or without basement, is designed to give the maximum comfort and space. Space saving closet fixtures are used.



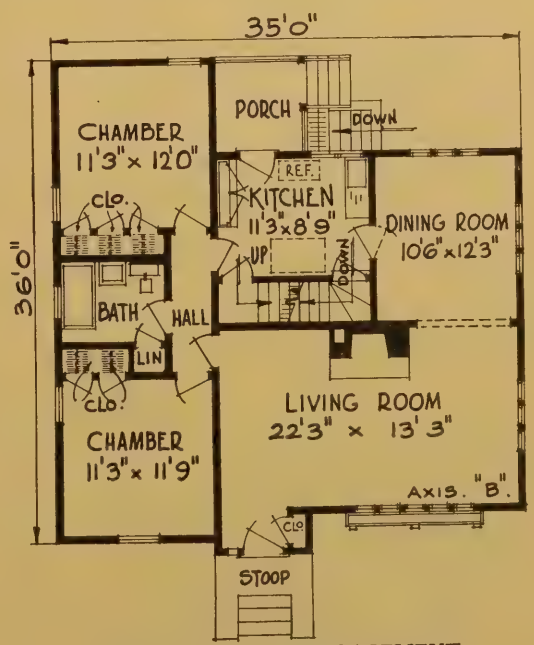
PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width .....39' 0"
Extreme Depth .....45' 6"
Main Floor Ceiling ..... 8' 6"
Basement Ceiling
Plan "B" .. 7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**..... **$20.00**

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

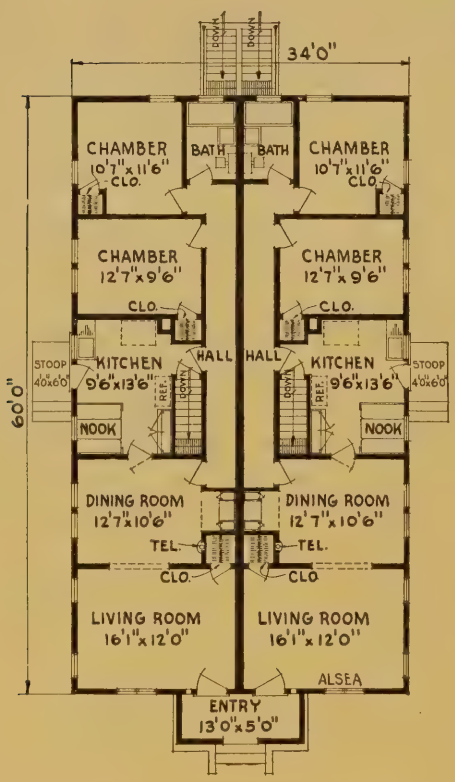


Two Family Home

"The ALSEA"

34 Ft. Wide x 60 Ft. Deep

EACH FAMILY HAS 5 ROOMS, BATH AND DINING NOOK



TWO-FAMILY bungalows are most desirable for those who seek the constant companionship of congenial people, and for such this home stands for all that could be sought in practical comforts and substantial construction.

It is a departure from the usual two-family type and many will appreciate the houselike appearance added by the single entrance.

CORRECTLY DRAWN WORKING PLANS ARE ESSENTIAL TO THE CAREFUL BUILDER WHO DOES FIRST-CLASS CONSTRUCTION.

SIZES:

Extreme Width	**42' 0"**
Extreme Width	**75' 6"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

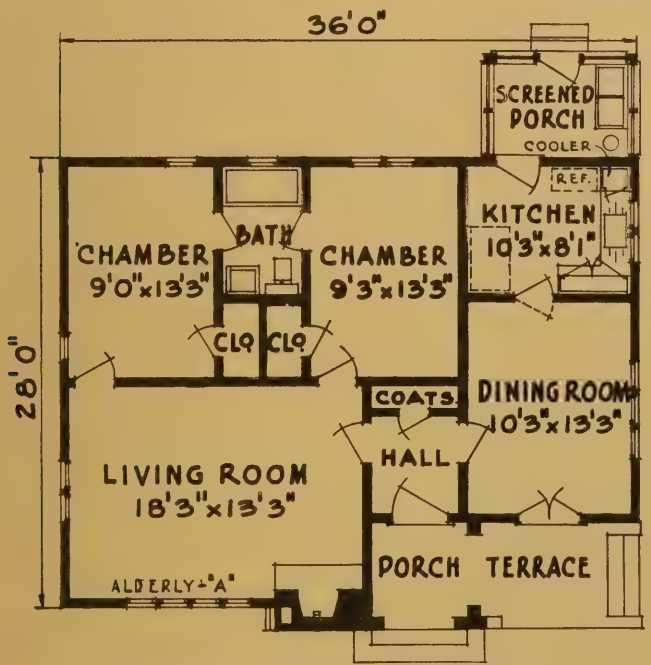
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALDERLY"

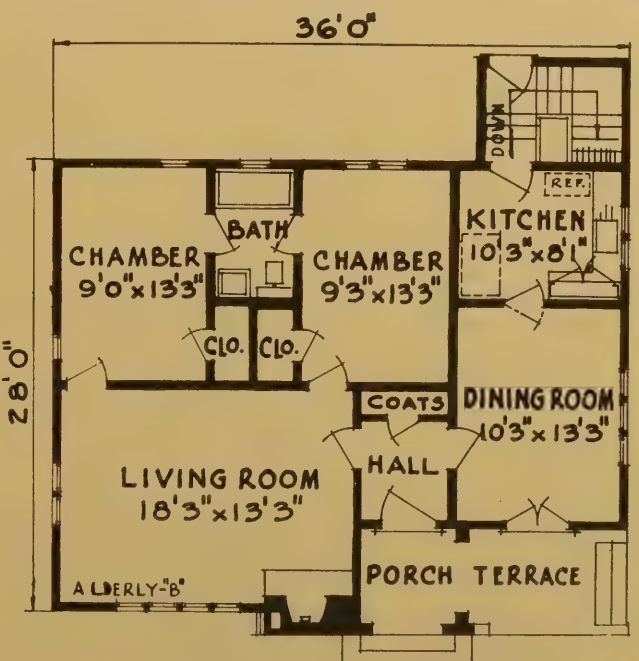
36 Ft. Wide x 28 Ft. Deep



PLAN "A"—WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

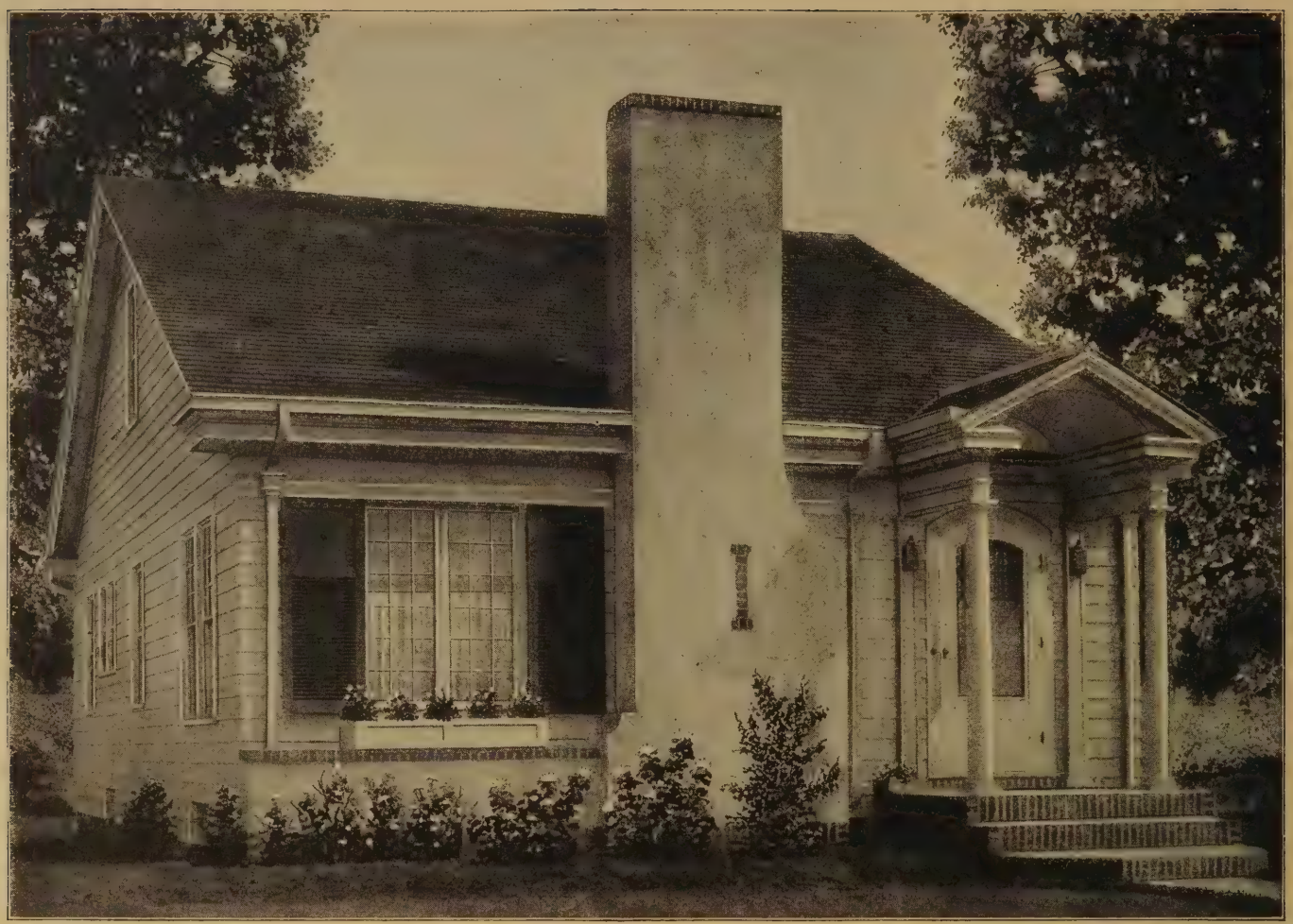
SIZES:

Extreme Width	39' 6"
Extreme Depth—Plan "A"	40' 0"
Extreme Depth—Plan "B"	39' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**..... **$20.00**

Secure above plans, etc. from your local Lumber or Building Material Dealer.

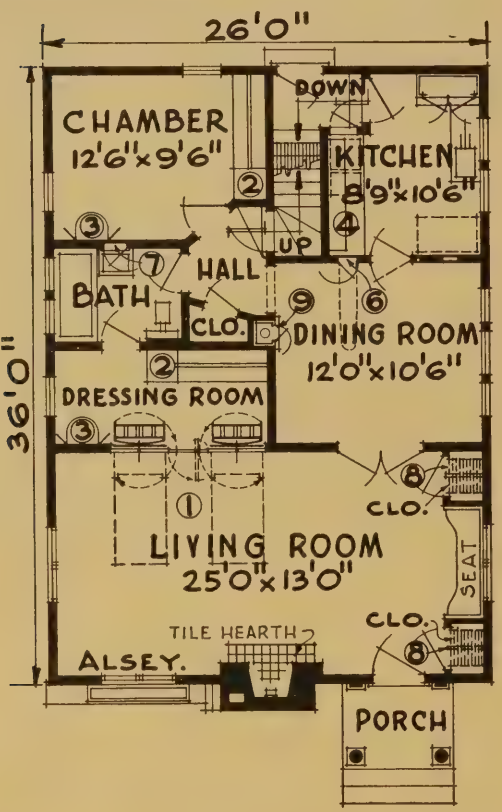
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Dressing Room

"The ALSEY"

26 Ft. Wide x 36 Ft. Deep



ATTRACTIVE, comfortable and practical in every way, the "Alsey" is an efficiency home fully equipped for easy and happy housekeeping. The living room at night is a large spacious bed room. All rooms are carefully planned for economy and utility.

KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Beds"
2—"Dressing Cabinets"
3—"Dressing Tables"
4—"Combination Kitchen Cabinet and Refrigerator"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
8—"Adjustable Clothes Hangers"
9—"Telephone Cabinet"

SIZES:

Extreme Width	**29' 0"**
Extreme Depth	**44' 6"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

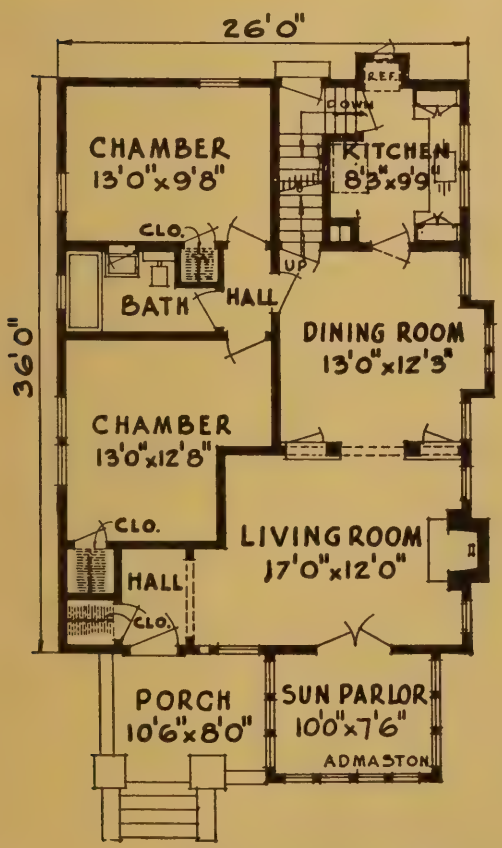
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Sun Parlor

"The ADMASTON"

26 Ft. Wide x 36 Ft. Deep



THE overhanging roofs cast pleasing shadows over the colored shingles. The recessed porch is cool and inviting. Study the floor plan for a moment and realize the excellence of room distribution. The "Adamston" is a good investment, too.

THE NECESSITY OF CORRECTLY MADE PLANS IS ALWAYS APPRECIATED BY THE RELIABLE BUILDING CONTRACTOR WHO ERECTS AND COMPLETES THE HOME

SIZES:

Extreme Width	**31' 0"**
Extreme Depth	**50' 0"**
Main Floor Ceiling	**8' 6"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

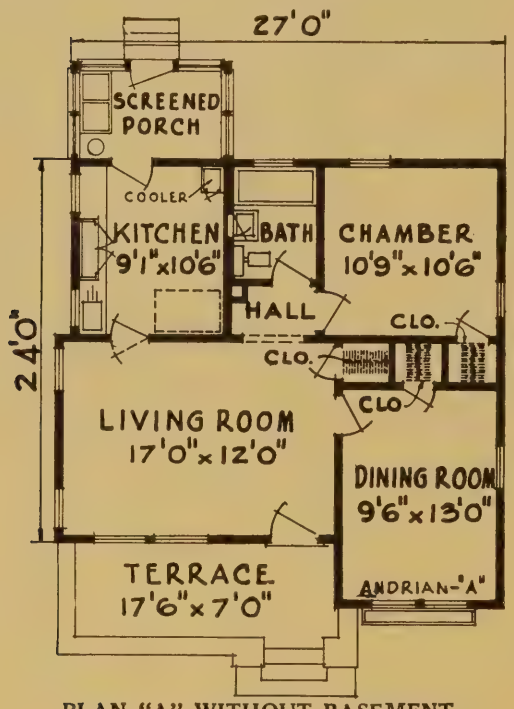


4 Rooms and Bath

"The ANDRIAN"

27 Ft. Wide x 34 Ft. Deep

IT will be a delight to return to this cozy bungalow. The entrance and sloping roof give the "Andrian" a charm all its own. The interior is equally cozy, and charming. Space saving closet fixtures are shown.



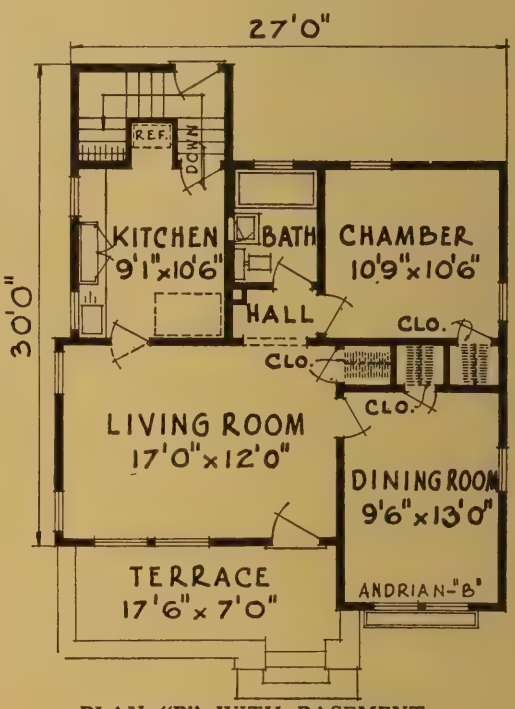
PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	31' 0"
Extreme Depth Plan "A"	42' 6"
Extreme Depth Plan "B"	41' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling Plan "B"	7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

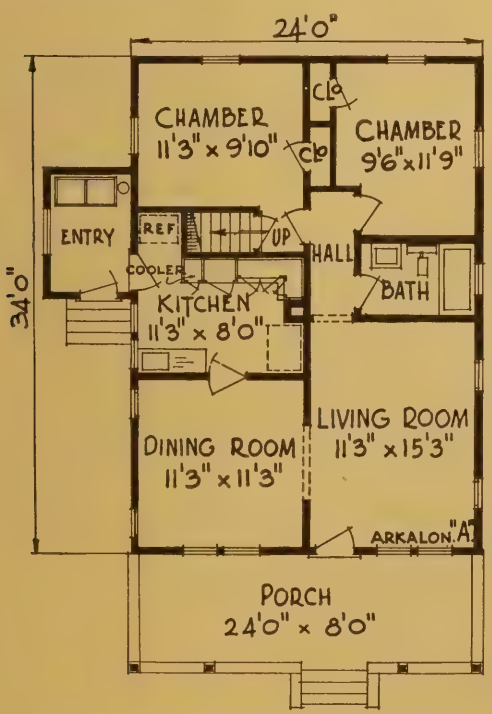


5 Rooms and Bath

"The ARKALON"

24 Ft. Wide x 34 Ft. Deep

WHILE it is in the conventional style, the "Arkalon," is a very attractive home. To get the full effect, one must picture it in colors, shingles stained below, and dark above, and all trimmed in white. The arrangement of rooms is ideal, the chambers having easy access to the bath, but are isolated from the other rooms. Under the shingles, fibre board insulating sheathing is used making this home adaptable to any climate.



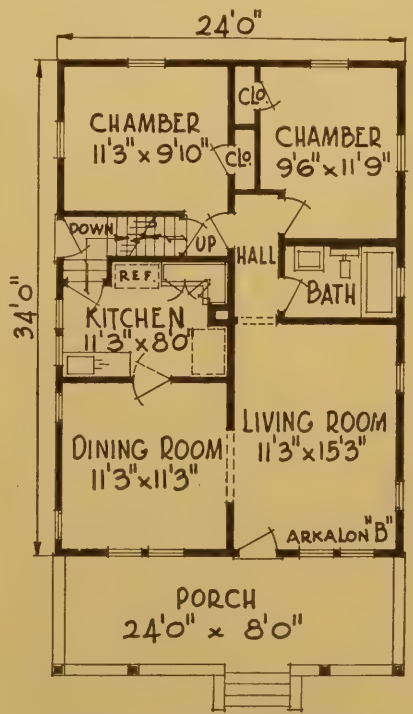
PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans, of this design state whether wanted with or without basement.

SIZES:

Extreme Width—Plan "A"	33' 0"
Extreme Width—Plan "B"	28' 0"
Extreme Depth	46' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ADGER"

30 Ft. Wide x 34 Ft. Deep

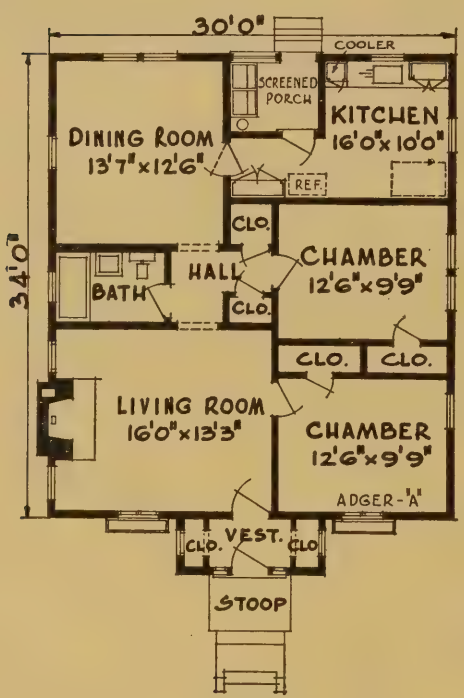
A SHINGLED bungalow with an exceptionally attractive entrance. The inside is commodious and remarkably convenient for easy housekeeping. Moderate in price, it is the perfect home for newly-weds or small families.

SIZES:

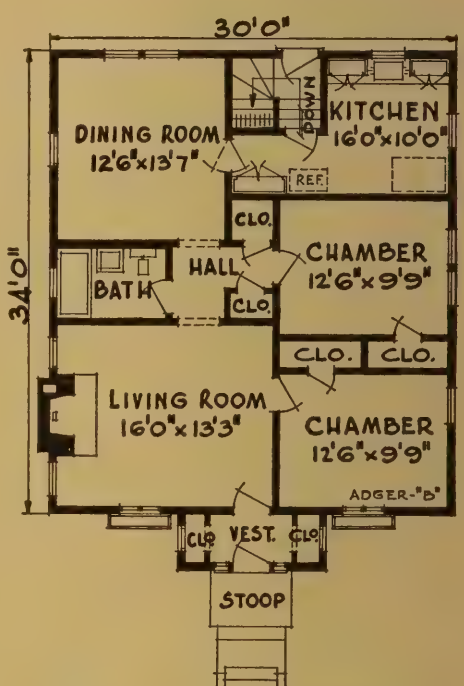
Extreme Width	32' 0"
Extreme Depth—Plan "A"	50' 0"
Extreme Depth—Plan "B"	48' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "A" WITHOUT BASEMENT



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

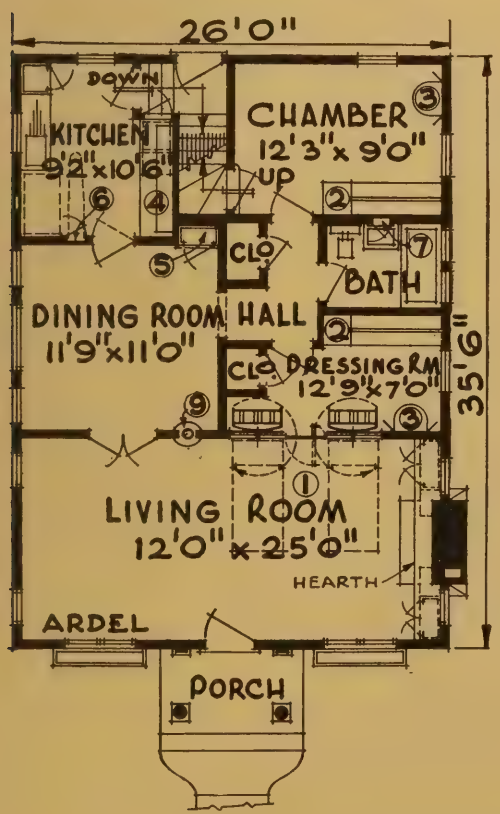
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Dressing Room

"The ARDEL"

26 Ft. Wide x 35 Ft. 6 In. Deep



A PLEASING, comfortable bungalow of four rooms with five room efficiency. In this small though comfortable home, twin disappearing beds transform the living room into a large chamber at night.

The space saving and utility devices as used in this home are always appreciated by the busy housewife.

KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Bed"
2—"Dressing Cabinets"
3—"Dressing Tables"
4—"Combination Kitchen Cabinet and Refrigerator"
5—"China Cabinet"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
9—"Telephone Cabinet"

SIZES:

Extreme Width	29' 0"
Extreme Depth	43' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

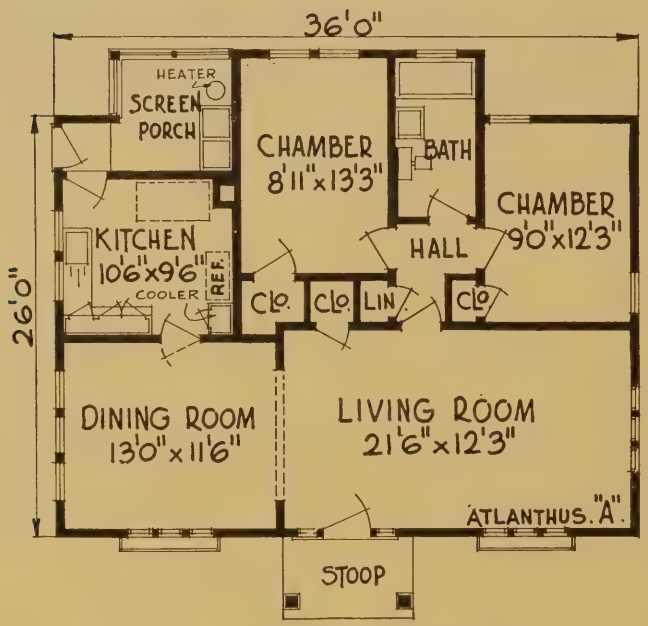
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ATLANTHUS"

36 Ft. Wide x 30 Ft. Deep



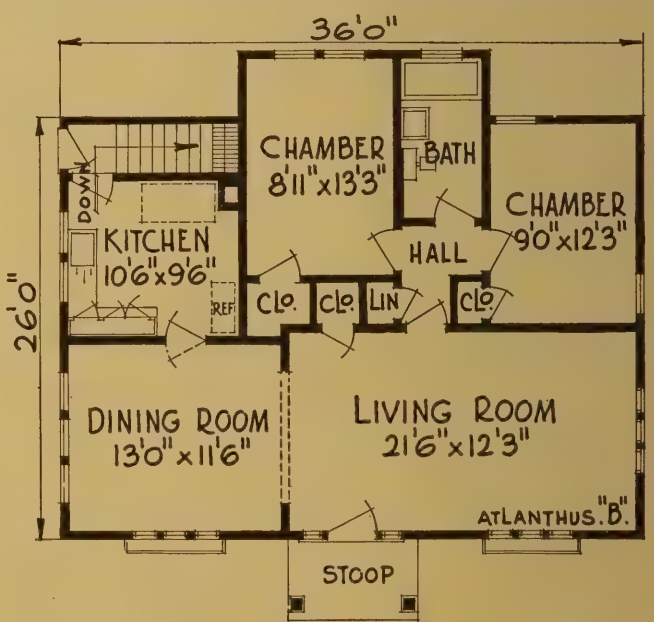
PLAN "A"—WITHOUT BASEMENT

SIZES:

Extreme Width	43' 0"
Extreme Depth	38' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items .....
One (1) **Set of Specifications and Two (2) Blank Contract Forms** .....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

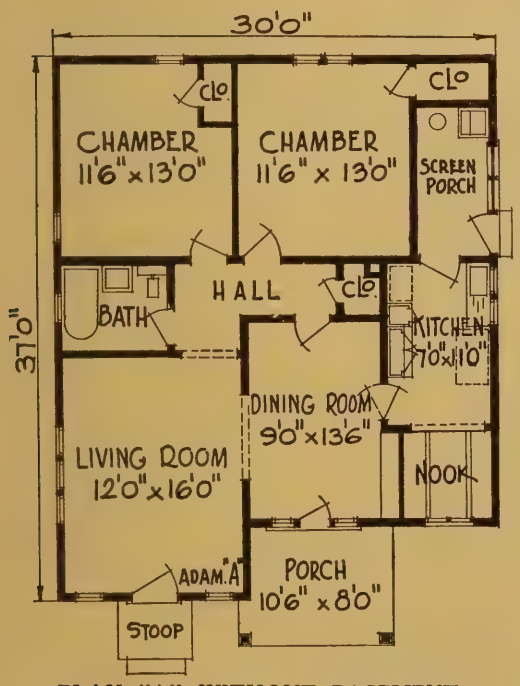
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Dining Nook

"The ADAM"

30 Ft. Wide x 37 Ft. Deep

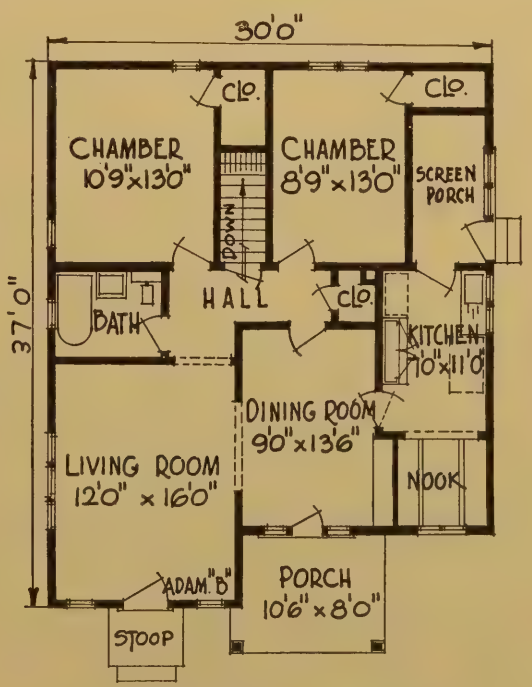


PLAN "A" WITHOUT BASEMENT

POSSESSING the beauty of an expensive home, the "Adam" offers all to be desired in a bungalow. Furthermore, the cost is moderate. Roomy chambers, a handy kitchen, and comfortable living and dining rooms promise a life of ease and joy to the owner.

Important

When ordering plans of this design state whether wanted with or without basement.



PLAN "B" WITH BASEMENT

SIZES:

Extreme Width	34' 0"
Extreme Depth	43' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



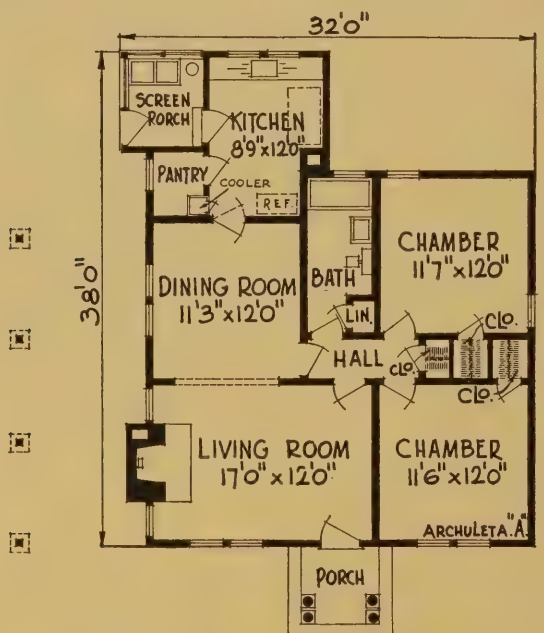
5 Rooms and Bath

"The ARCHULETA"

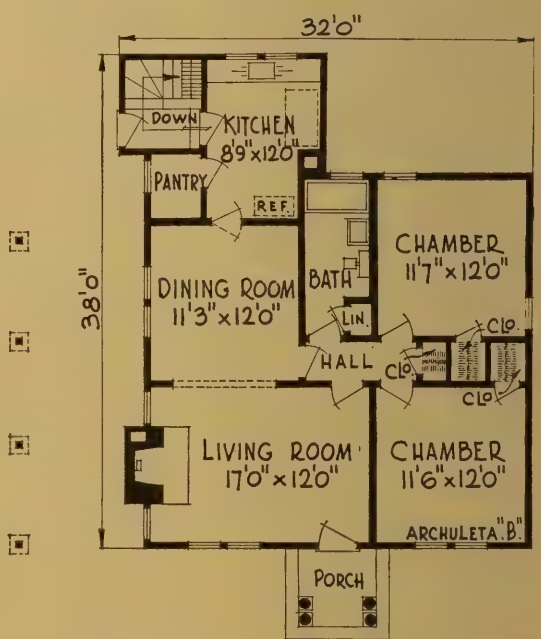
32 Ft. Wide x 38 Ft. Deep

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	44' 0"
Extreme Depth	47' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

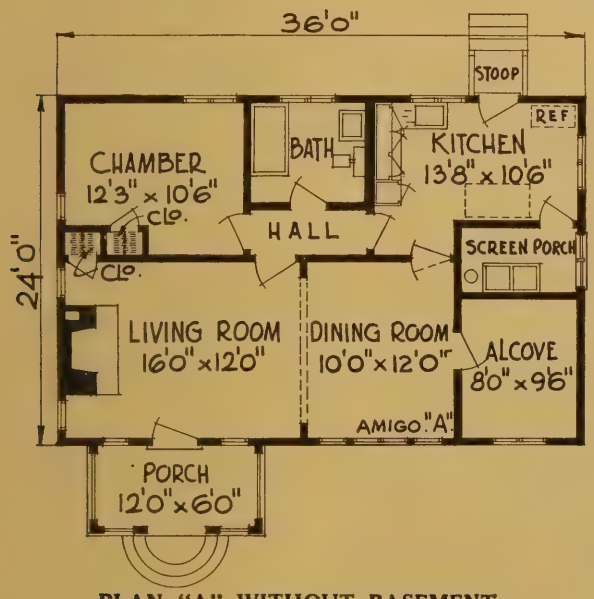
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



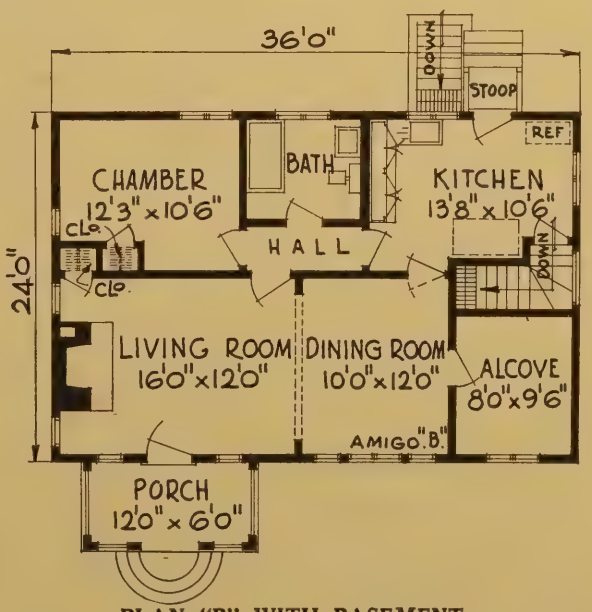
5 Rooms and Bath

"The AMIGO"

36 Ft. Wide x 24 Ft. Deep



PLAN "A" WITHOUT BASEMENT



PLAN "B" WITH BASEMENT

SIZES:

Extreme Width	39' 0"
Extreme Depth	41' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.

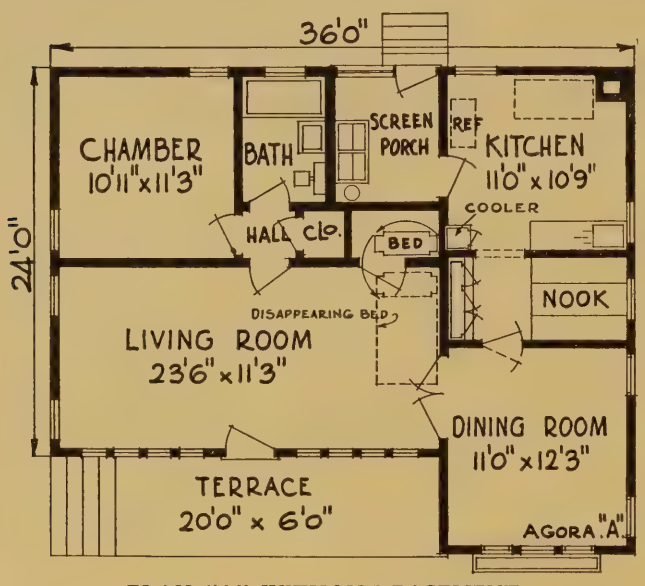
Secure above plans, etc., from your local Lumber or Building Material Dealer.



4 Rooms, Bath and Nook

"The AGORA"

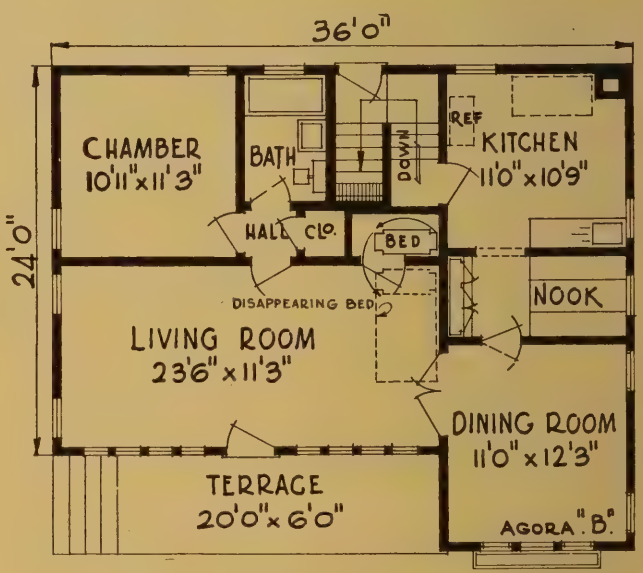
36 Ft. Wide x 30 Ft. Deep



PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B" WITH BASEMENT

SIZES:

Extreme Width	39′ 6″
Extreme Depth—Plan "A"	35′ 0″
Extreme Depth——Plan "B"	33′ 0″
Main Floor Ceiling	8′ 6″
Basement Ceiling—Plan "B"	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.

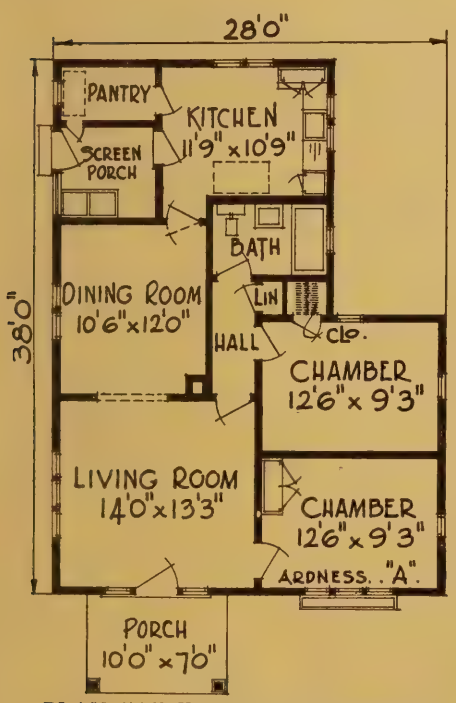
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ARDNESS"

28 Ft. Wide x 38 Ft. Deep



PLAN "A" WITHOUT BASEMENT

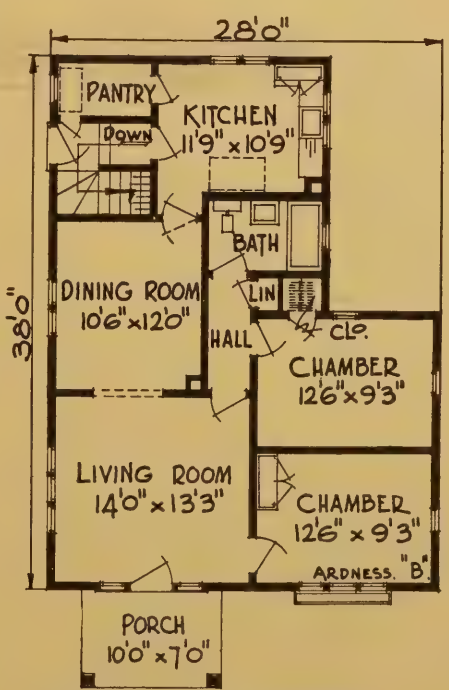
A BUNGALOW for people who have but little money to invest, yet desire the best. The entrance and porch deserve special attention. Large handy rooms, and space saving closets, equipped with adjustable fixtures. Note the inside.

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	33' 6"
Extreme Depth	48' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

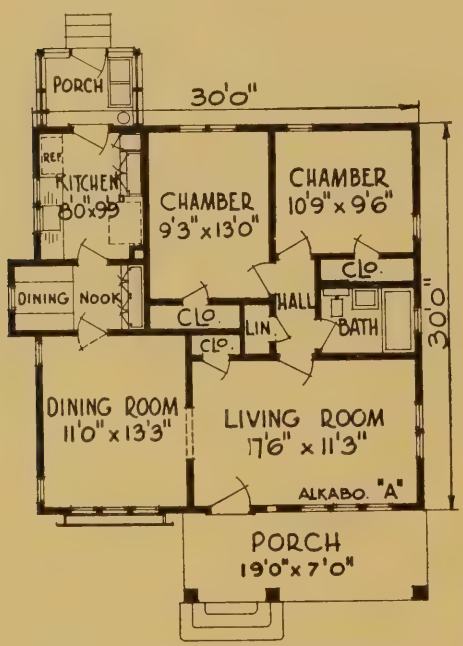


5 Rooms and Bath

"The ALKABO"

30 Ft. Wide x 30 Ft. Deep

UPON closer analysis, we discover that it is the roof slope, and architecture of the porch that gives the "Alkabo" its unusual atractiveness. The shutters add the finishing touch to the exterior. Inside we find everything to be desired in home, comfort and efficiency.



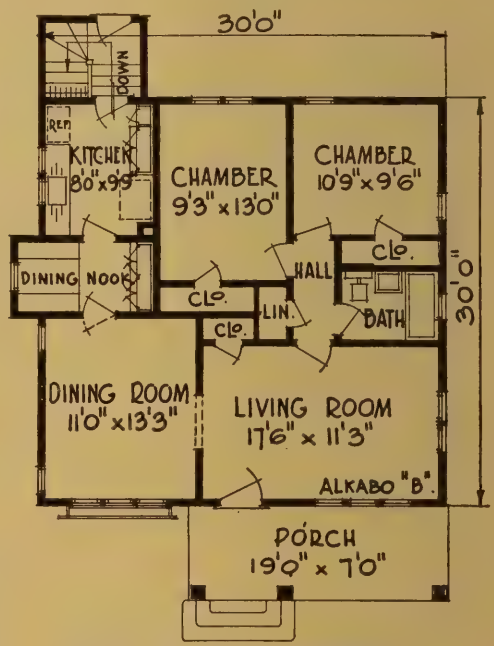
PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans for this design state whether wanted with or without basement.

SIZES:

Extreme Width	35' 0"
Extreme Depth—Plan "A"	48' 6"
Extreme Depth—Plan "B"	47' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

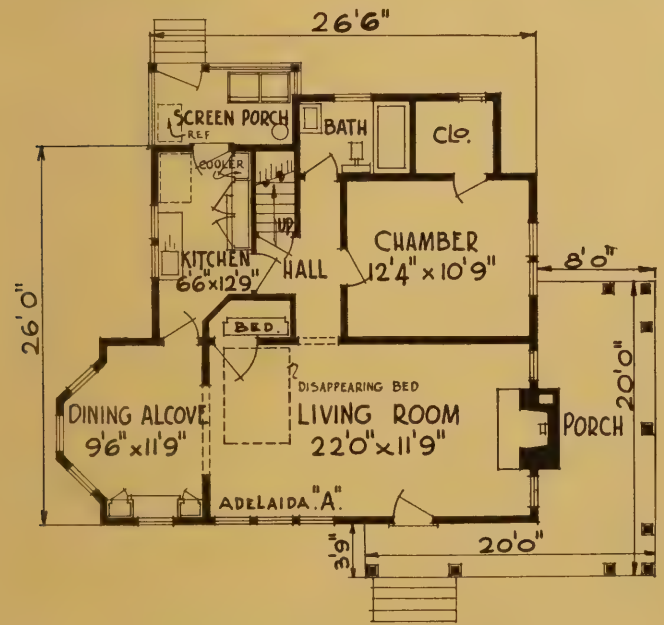
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms and Bath

"The ADELAIDA"

33 Ft. Wide x 29 Ft. 6 In. Deep



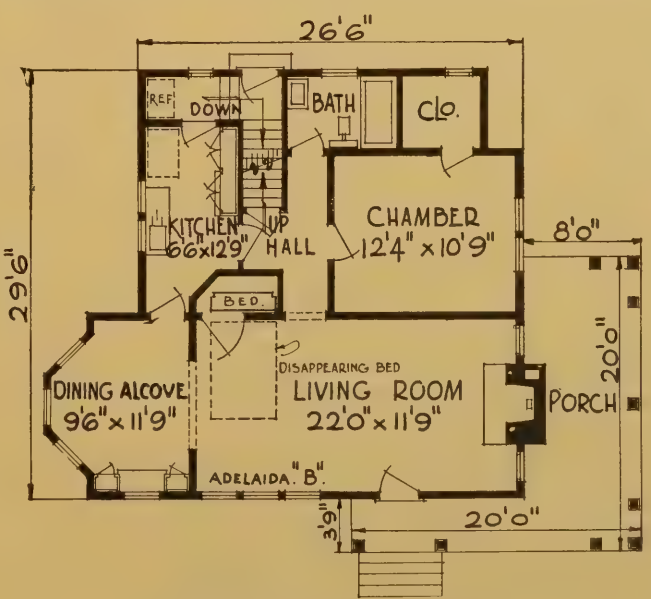
PLAN "A"—WITHOUT BASEMENT

SIZES:

Extreme Width	41' 0"
Extreme Depth—Plan "A"	41' 6"
Extreme Depth—Plan "B"	37' 9"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

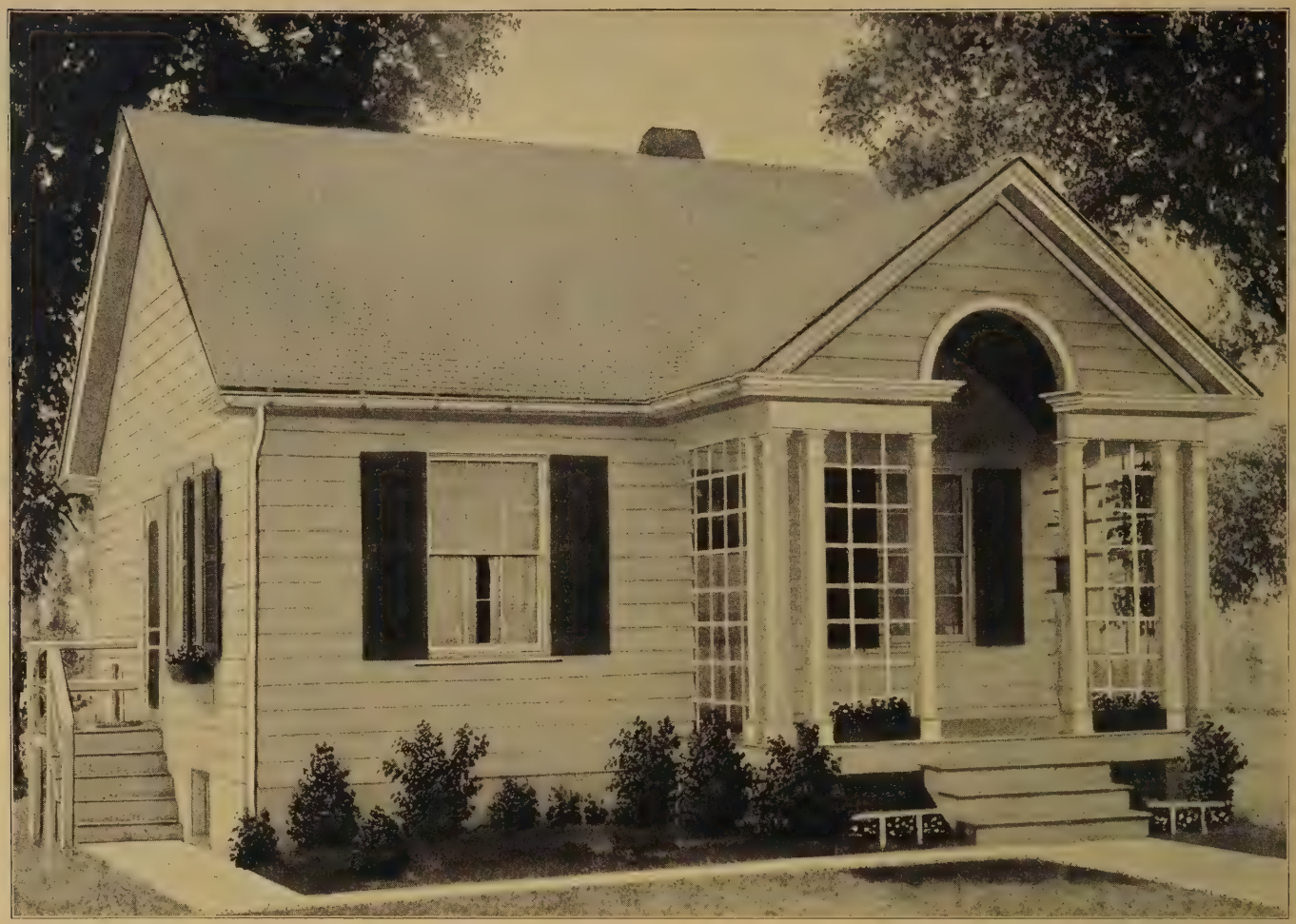


PLAN "B"—WITH BASEMENT

One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**..... $20.00
Two (2) Complete Sets **Blue-Print Working Plans** for Above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

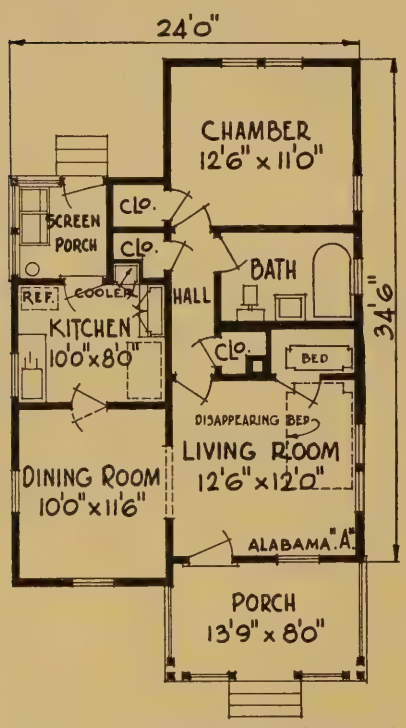
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms and Bath

"The ALABAMA"

24 Ft. Wide x 34 Ft. 6 In. Deep



PLAN "A" WITHOUT BASEMENT

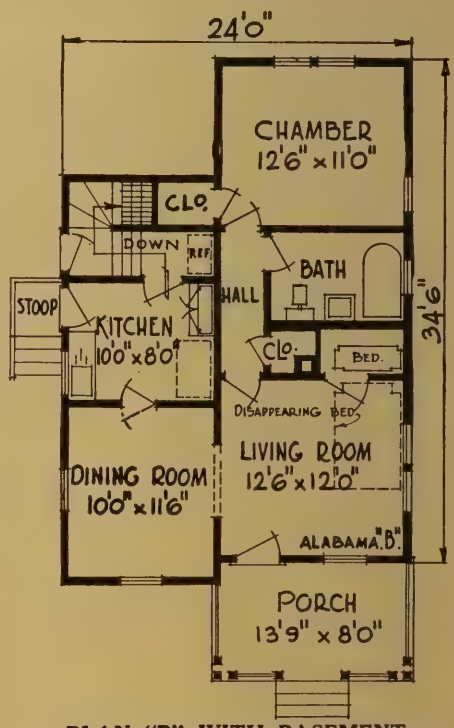
THE picture shows the "Alabama," to be an appealing bungalow, with a decorative and pleasing porch. The floor plan suggests the comfort and easy accessibility of the interior. The specifications will show that the "Alabama" can be built at moderate cost. Fibre board insulating sheathing is used for outside walls, thereby insuring a warm, comfortable home.

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width—Plan "A"	**27' 0"**
Extreme Width—Plan "B"	**29' 6"**
Extreme Depth	**46' 6"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling—Plan "B"	**7' 0"**

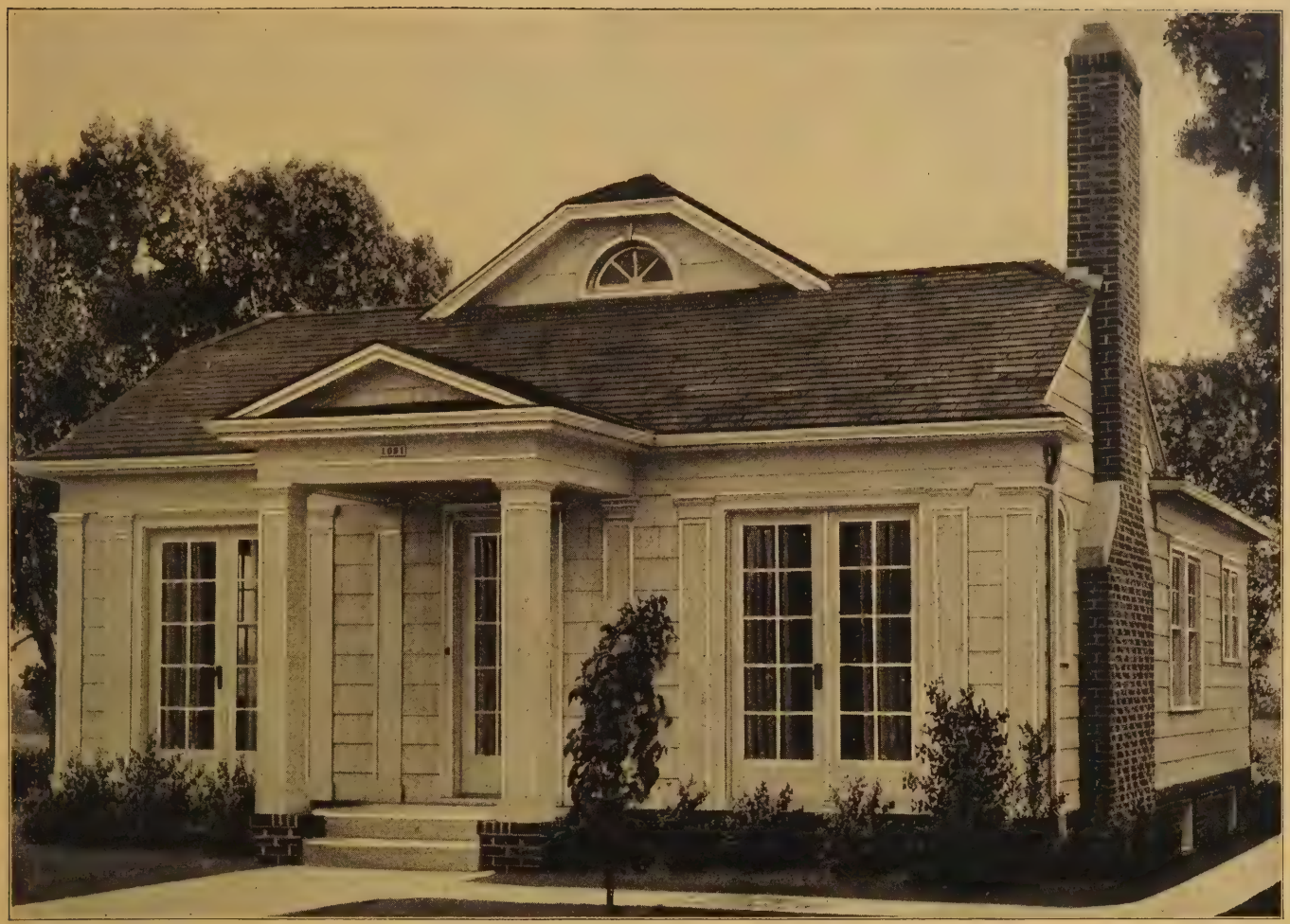


PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**..... **$20.00**

Secure above plans, etc. from your local Lumber or Building Material Dealer.

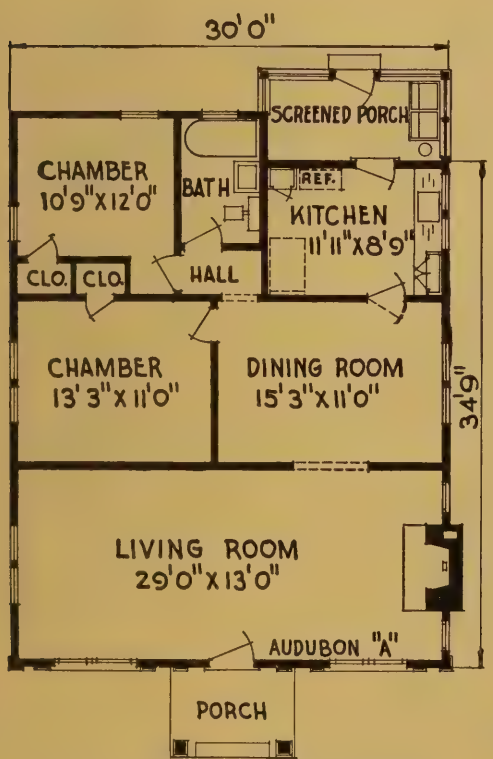
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AUDUBON"

30 Ft. Wide x 38 Ft. Deep



PLAN "A" WITHOUT BASEMENT

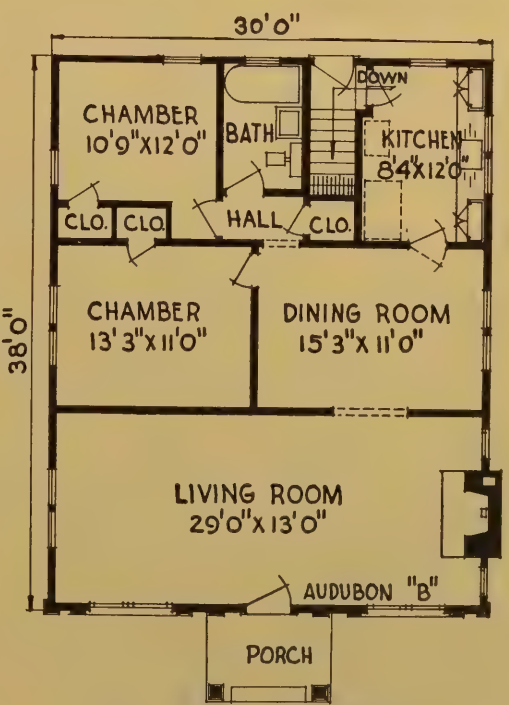
SINGULAR in appearance, the "Audubon" possesses a beauty all its own. A certain classic dignity is obtained by the pillared front. Inside we find the same dignity preserved in the regular distribution of the rooms.

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width....32' 6"
Extreme Depth
Plan "A" .....49' 6"
Extreme Depth
Plan "B" .....46' 6"
Main Floor Ceiling.. 9' 0"
Basement Ceiling
Plan "B" ..... 7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

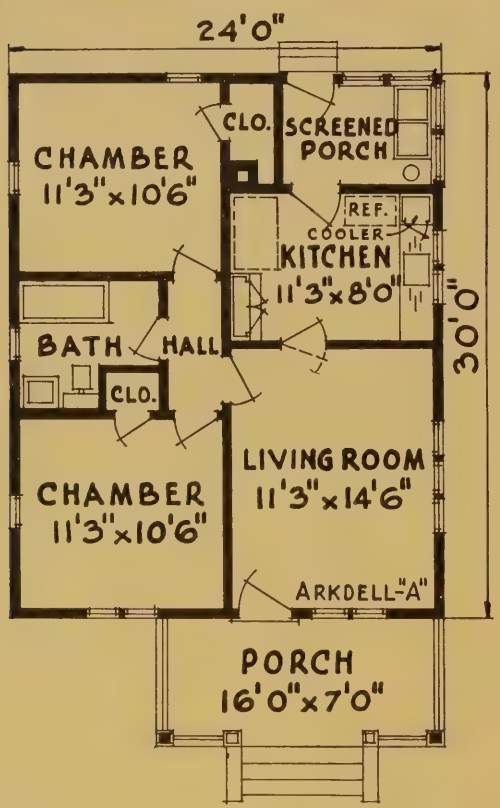


4 Rooms and Bath

"The ARKDELL"

24 Ft. Wide x 30 Ft. Deep

A BUNGALOW that immediately suggests the snugness and warmth found within. The porch is superb decoratively, and a constant source of restful pleasure. Study the floor plans and see for yourself the excellent room arrangement.



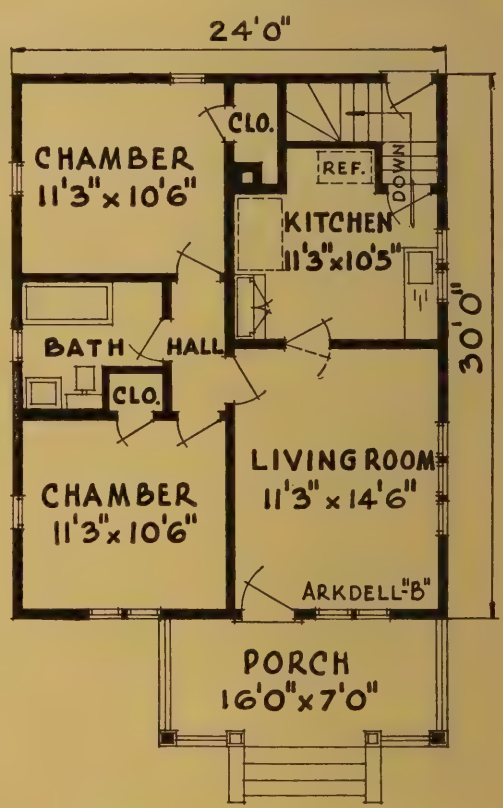
PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	29' 6"
Extreme Depth	42' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling— Plan "B"	7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

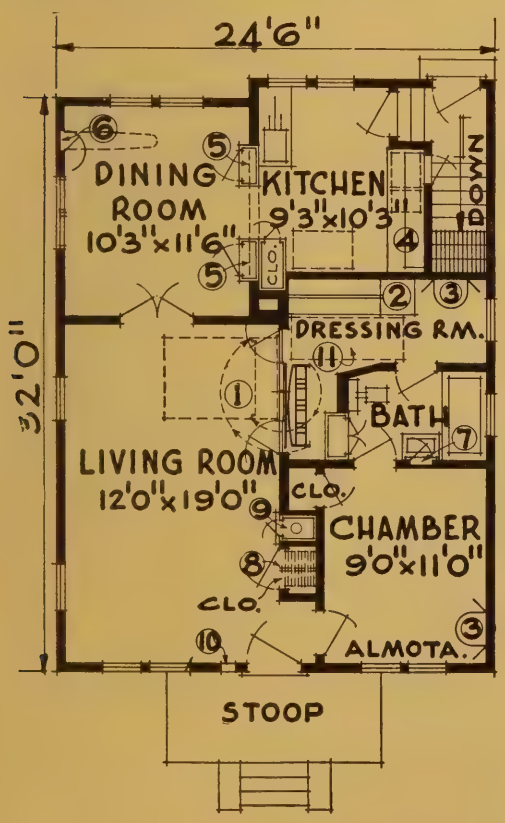
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Dressing Room

"The ALMOTA"

24 Ft. 6 In. Wide x 32 Ft. Deep



A SMALL cozy home, simple and attractive, designed to make house work easy and practical. Four rooms with five room efficiency. Space saving devices are provided for each room. A disappearing attic stair is installed in ceiling of dressing room.

KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Bed"
2—"Dressing Cabinet"
3—"Dressing Tables"
4—"Combination Kitchen Cabinet and Refrigerator"
5—"China Cabinets"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
8—"Adjustable Clothes Hangers"
9—"Telephone Cabinet"
10—"Built-in Mail Box"
11—"Disappearing Attic Stairs"

SIZES:

Extreme Width	28' 0"
Extreme Depth	41' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

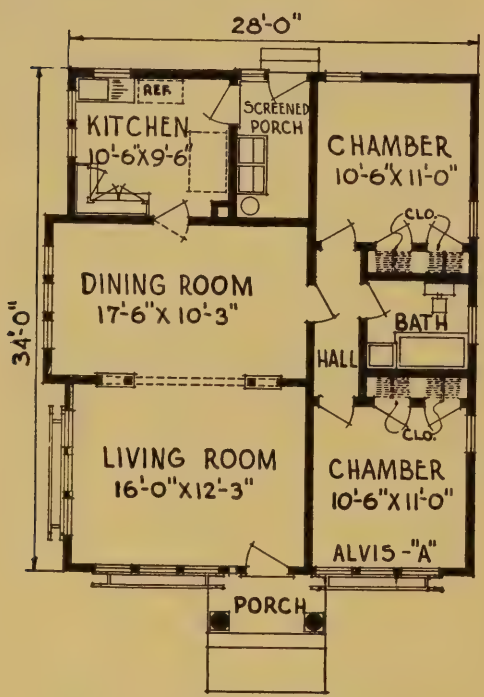


5 Rooms and Bath

"The ALVIS"

28 Ft. Wide x 34 Ft. Deep

A BUNGALOW in perfect taste. The straight roof lines are relieved by the curved roofs over the porch and eye brow sash in dormer. Beauty, convenience, and comfort are the gifts of the "Alvis," and at a moderate price. Space saving closet fixtures are used to good advantage.



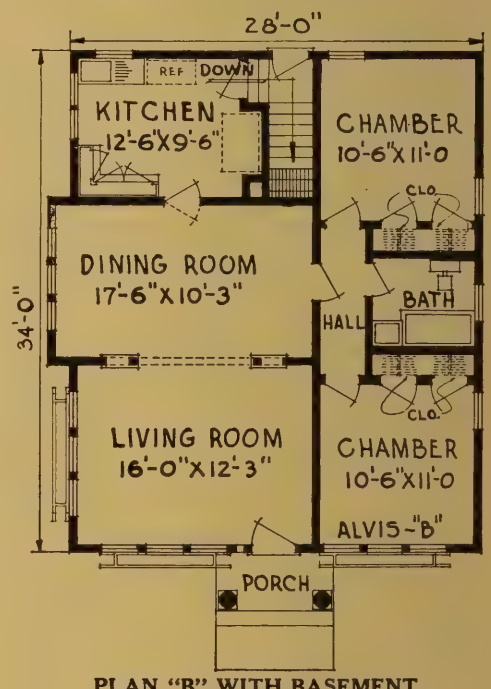
PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	32' 6"
Extreme Depth	44' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling Plan "B"	7' 0"



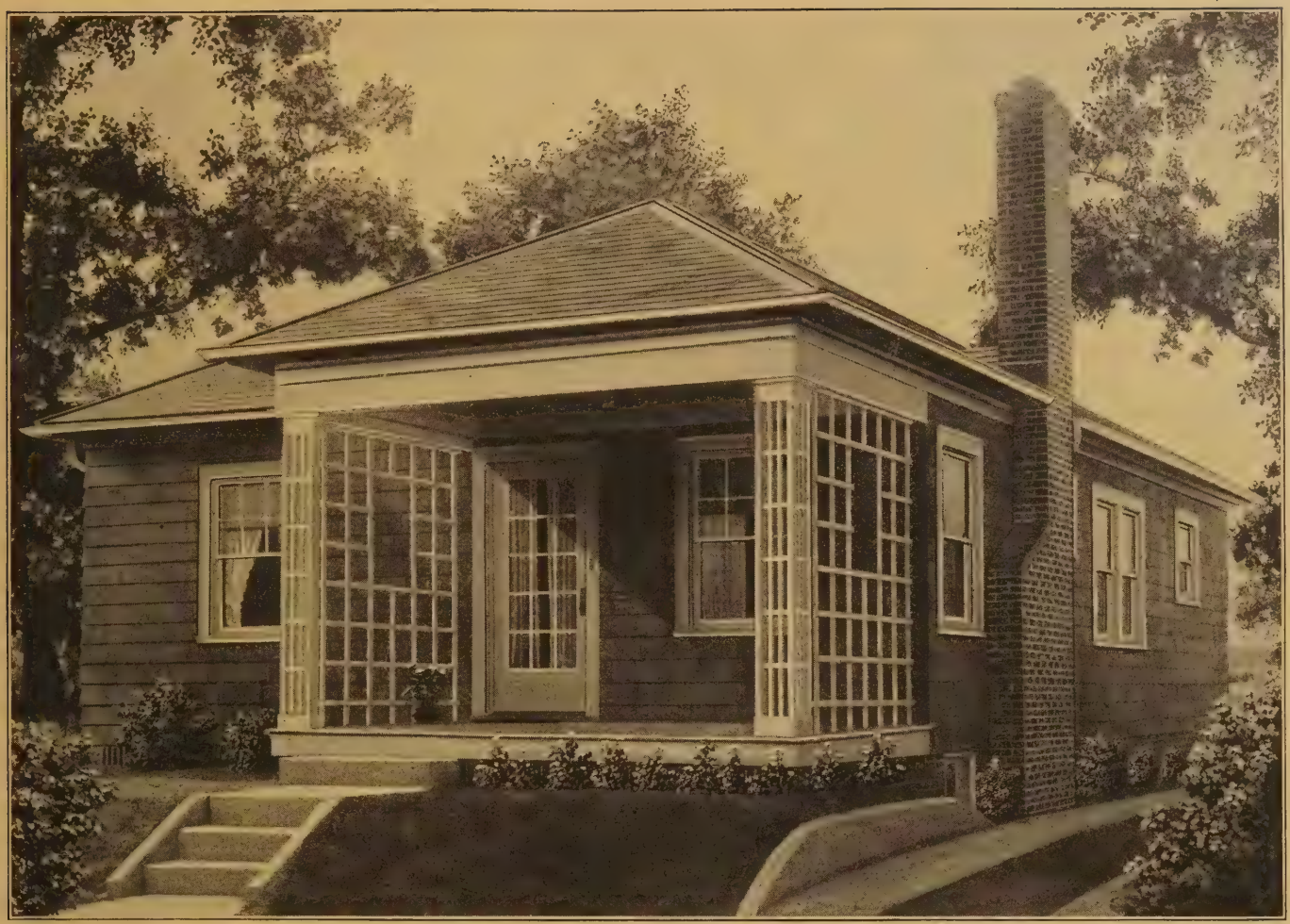
PLAN "B" WITH BASEMENT

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

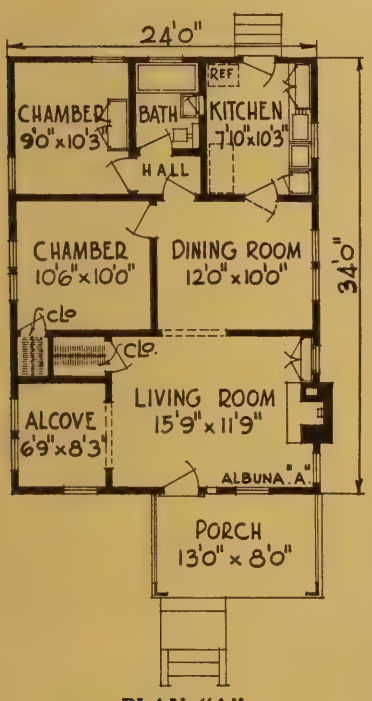
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALBUNA"

24 Ft. Wide x 34 Ft. Deep



PLAN "A"
WITHOUT BASEMENT

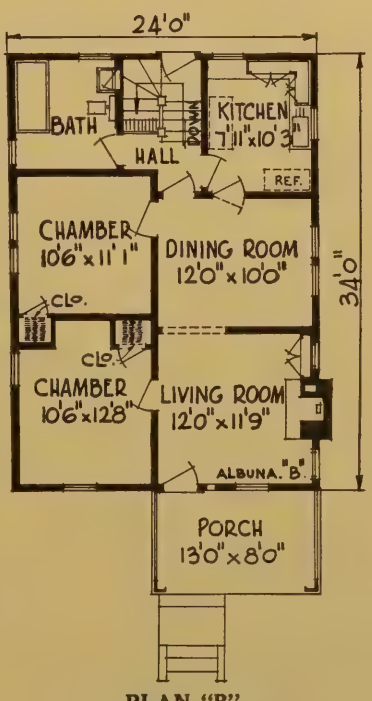
THIS bungalow is not only economical but attractive and extremely livable. Two floor plans are offered, one with basement and one without. Each is practical and convenient. Space saving closets are shown.

SIZES:

Extreme Width	27' 0"
Extreme Depth—Plan "A"	52' 6"
Extreme Depth—Plan "B"	50' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"
WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

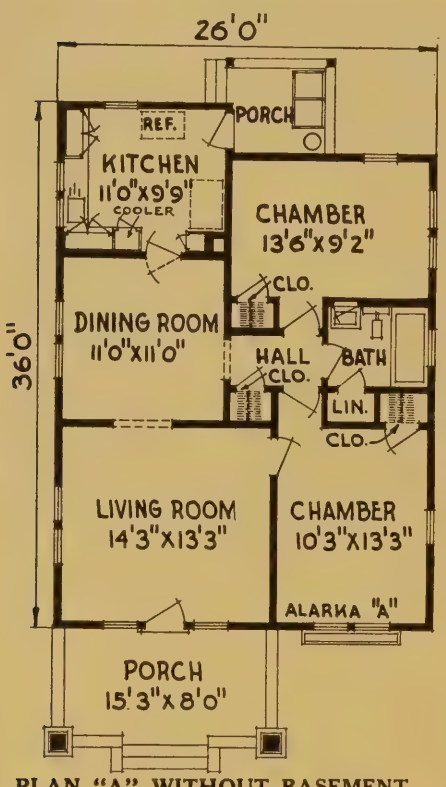
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALARKA"

26 Ft. Wide x 36 Ft. Deep



PLAN "A" WITHOUT BASEMENT

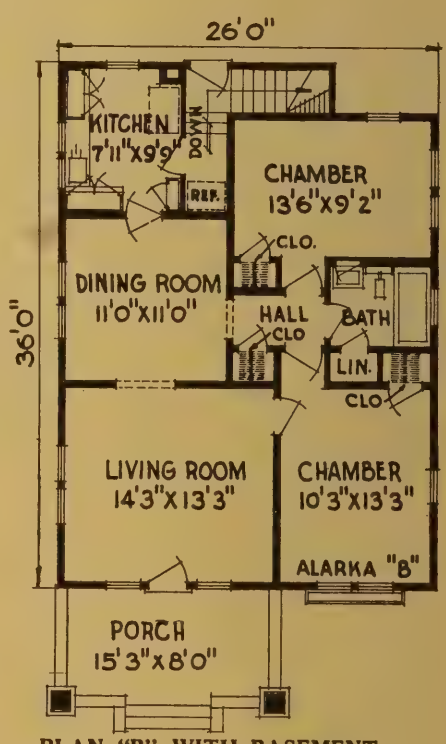
FROM the standpoint of investment, and for the joy of owning beautiful things, the "Alarka," is a good buy. Comfortable within, decorative without; it offers all to be desired in a bungalow. Space saving closets with adjustable clothes hangers complete the practical interior arrangements.

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	29' 3"
Extreme Depth—Plan "A"	50' 6"
Extreme Depth—Plan "B"	47' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

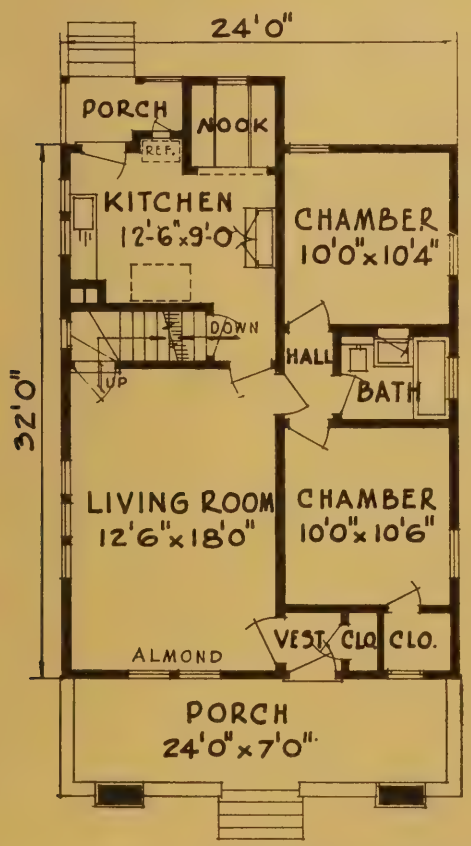


4 Rooms, Bath and Dining Nook

"The ALMOND"

24 Ft. Wide x 32 Ft. Deep

A SHINGLED bungalow of a popular style embodying all the attractive features of its type. A large, breezy porch supported by artistic pillars sets off the front of the home. The rooms are carefully arranged to utilize all space and save steps for the housewife. A cozy breakfast nook, medicine case and kitchen cabinets are among the features found.



WARMTH, DURABILITY AND ATTRACTIVE COLOR SCHEMES ARE ATTAINED BY USING STAINED SHINGLES FOR EXTERIOR WALLS.

SIZES:

Extreme Width	27' 0"
Extreme Depth	49' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

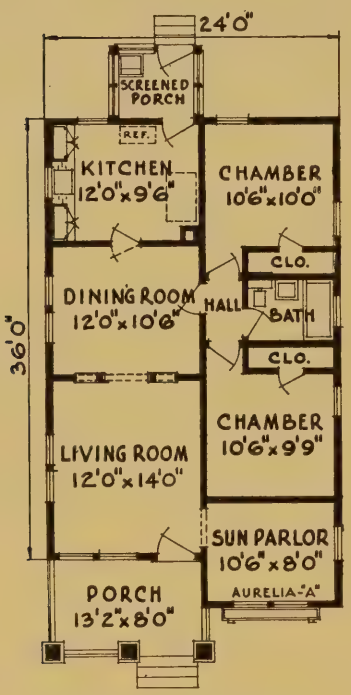
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Sun Parlor

"The AURELIA"

24 Ft. Wide x 36 Ft. Deep



PLAN "A"
WITHOUT BASEMENT

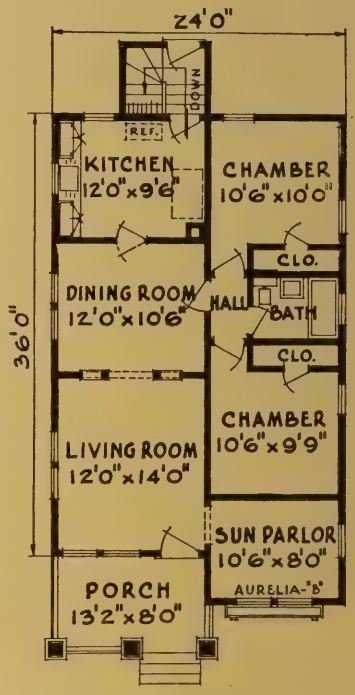
THE popularity of bungalows of this type is well founded because they are attractive, quickly built and moderate in price. The sun parlor is a constant source of pleasure. The colonnaded opening between the living and dining rooms is artistic and affords one continuous effect. There is a roominess in the "Aurelia" much appreciated by the Home Builder.

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	30' 0"
Extreme Depth—Plan "A"	55' 0"
Extreme Depth—Plan "B"	54' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"



PLAN "B"
WITH BASEMENT

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

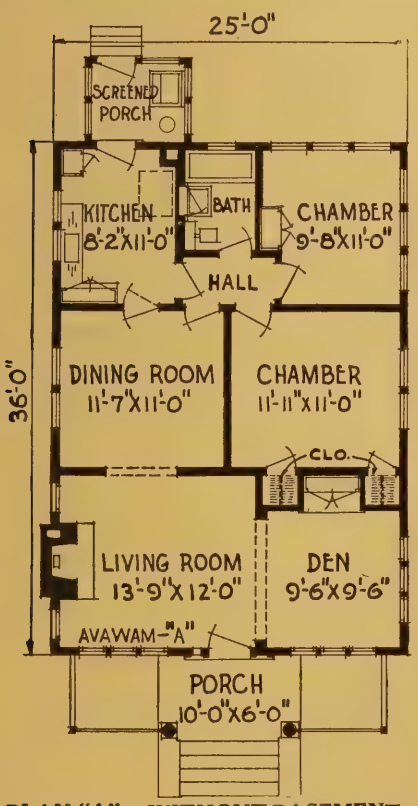
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Den

"The AVAWAM"

25 Ft. Wide x 36 Ft. Deep



PLAN "A"—WITHOUT BASEMENT

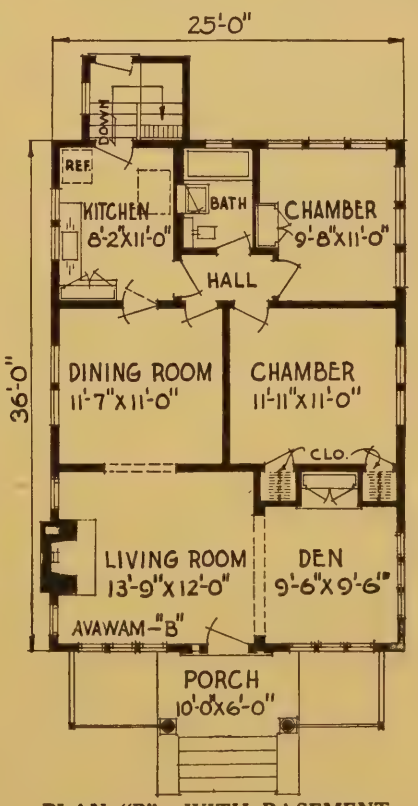
THE artistic porch and entrance, and the decorative trellises distinguish this home from its neighbors. The continuous effect of the living room and den is noteworthy. Space saving closet fixtures, neat and handy devices are used.

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	29' 0"
Extreme Depth—Plan "A"	54' 0"
Extreme Depth—Plan "B"	53' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"



PLAN "B"—WITH BASEMENT

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

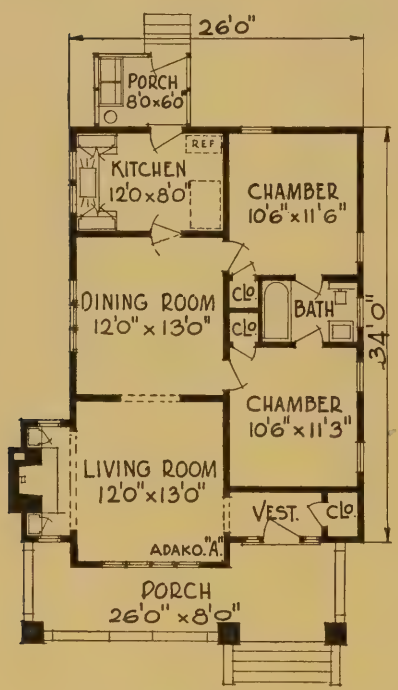
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



Each Plan—5 Rooms and Bath

"The ADAKO"

26 Ft. Wide x 34 Ft. Deep



PLAN "A"
WITHOUT BASEMENT

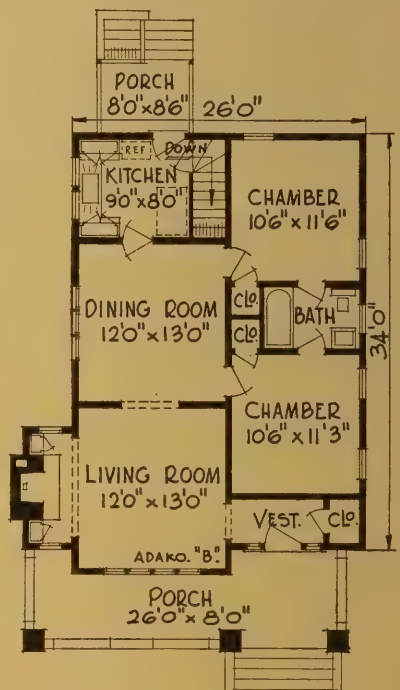
A BUNGALOW of unusual beauty. The many roof angles somewhat account for its charm. Either floor plan with or without basement is excellent. The recessed fireplace, exceedingly attractive, is used in both plans.

SIZES:

Extreme Width	**33' 6"**
Extreme Depth—Plan "A"	**55' 0"**
Extreme Depth—Plan "B"	**55' 9"**
Main Floor Ceiling	**8' 6"**
Basement Ceiling—Plan "B"	**7' 0"**

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"
WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

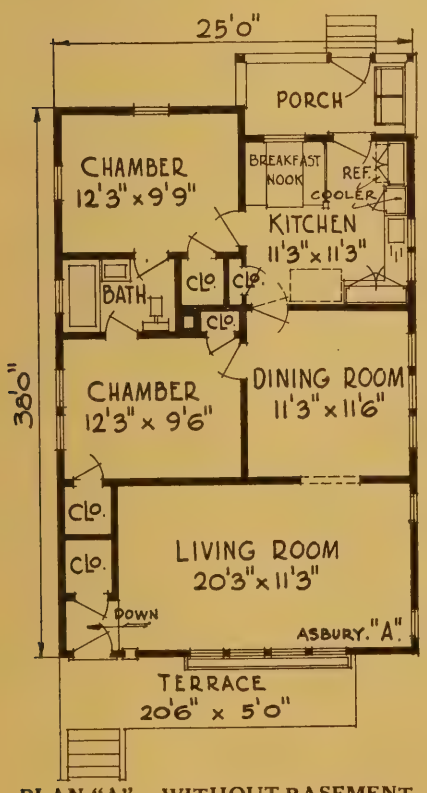
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Nook

"The ASBURY"

25 Ft. Wide x 38 Ft. Deep

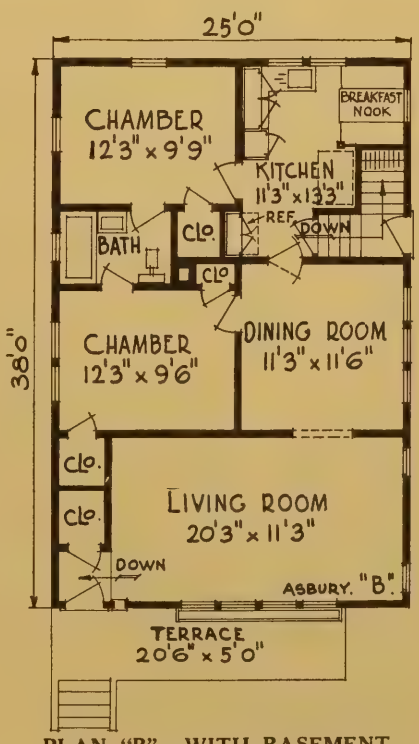


PLAN "A"—WITHOUT BASEMENT

A NATTY little bungalow presenting an exterior that is artistic and tasty. The interior bears out the promises of the outside and we find neat comfortable rooms arranged in a convenient fashion. The kitchen with its cabinets, refrigerator and breakfast nook will be a perpetual delight to the housewife.

SIZES:

Extreme Width	29' 0"
Extreme Depth—Plan "A"	53' 0"
Extreme Depth—Plan "B"	48' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"



PLAN "B"—WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

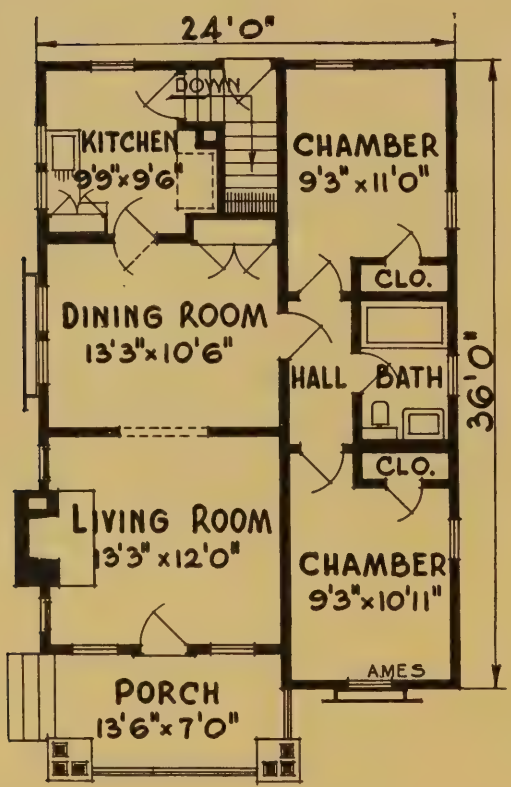
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AMES"

24 Ft. Wide x 36 Ft. Deep



ONE of the best of the popular bungalows. A glance at the plan reveals its matchless arrangement. The accessibility from one room to another that is found here is unusual for the bungalow type. Happiness on one floor for the small family.

IMPORTANT

The blue print plans for these homes give full details of substantial construction.

SIZES:

Extreme Width	28' 0"
Extreme Depth	45' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

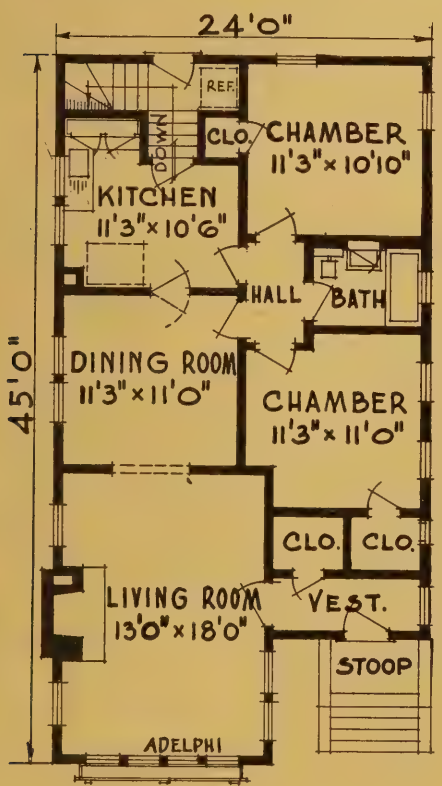
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ADELPHI"

24 Ft. Wide x 45 Ft. Deep



ONE of the deservingly popular bungalows. Wide colored shingles with white trim makes an effective exterior.

Ample closet space and accessible rooms are found inside. A home in which living will be a joy.

THE PLANS OF THIS HOME WILL GIVE COMPLETE DETAILS, SO ESSENTIAL TO THE CAREFUL BUILDER.

SIZES:

Extreme Width	29′ 0″
Extreme Depth	50′ 0″
Main Floor Ceiling	8′ 6″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

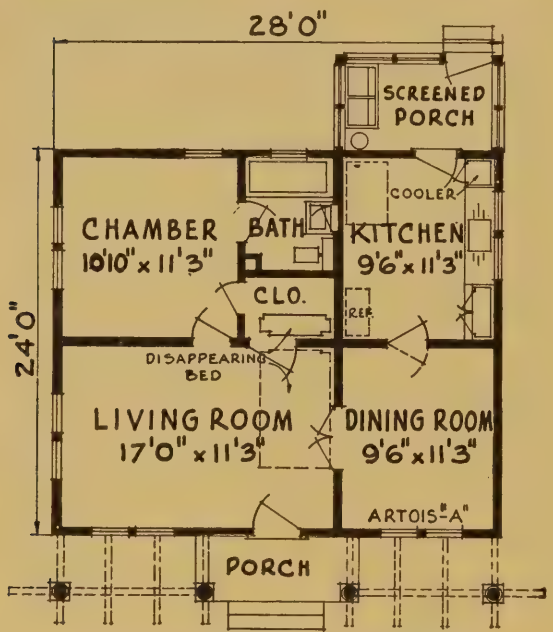


4 Rooms and Bath

"The ARTOIS"

28 Ft. Wide x 24 Ft. Deep

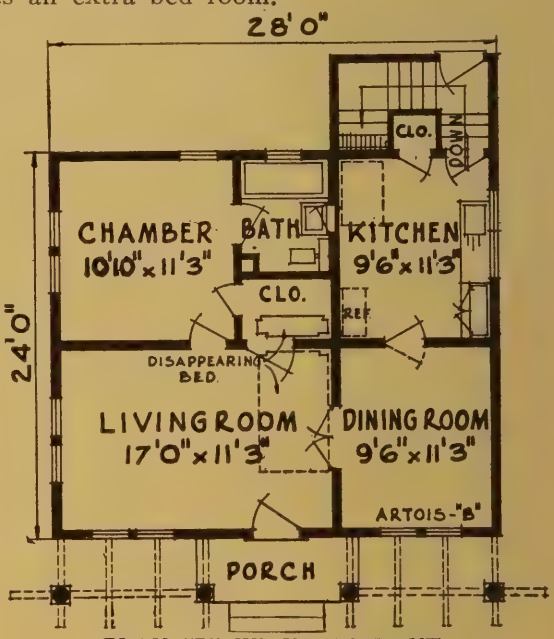
A NEAT bungalow of simple lines, that retains an individual appearance. Artistic pergolas and trellises partly account for this. A disappearing bed in the living room in reality provides an extra bed room.



PLAN "A" WITHOUT BASEMENT

Important

When ordering plans of this design state whether wanted with or without basement.



PLAN "B" WITH BASEMENT

SIZES:

Extreme Width	33' 0"
Extreme Depth	37' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

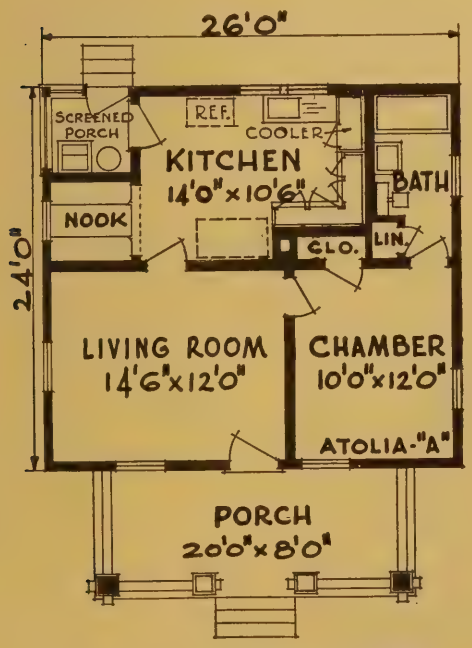


3 Rooms, Bath and Nook

"The ATOLIA"

26 Ft. Wide x 24 Ft. Deep

THE requirements of comfort and outward attractiveness are satisfied at a very low price in the "Atolia." The breakfast nook should afford many a cozy breakfast or dinner.



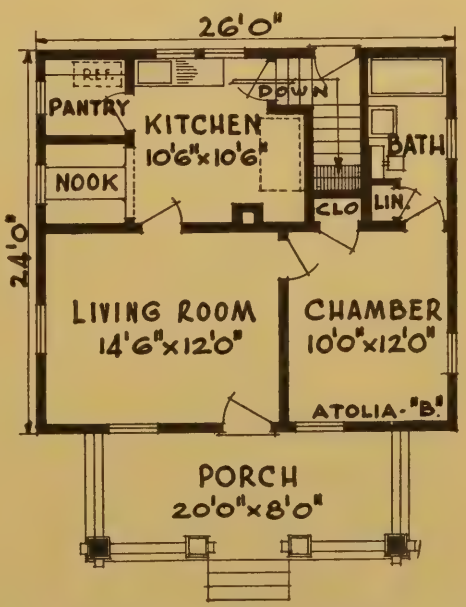
PLAN "A" WITHOUT BASEMENT

SIZES:

Extreme Width	29' 0"
Extreme Depth—Plan "A"	37' 0"
Extreme Depth—Plan "B"	36' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

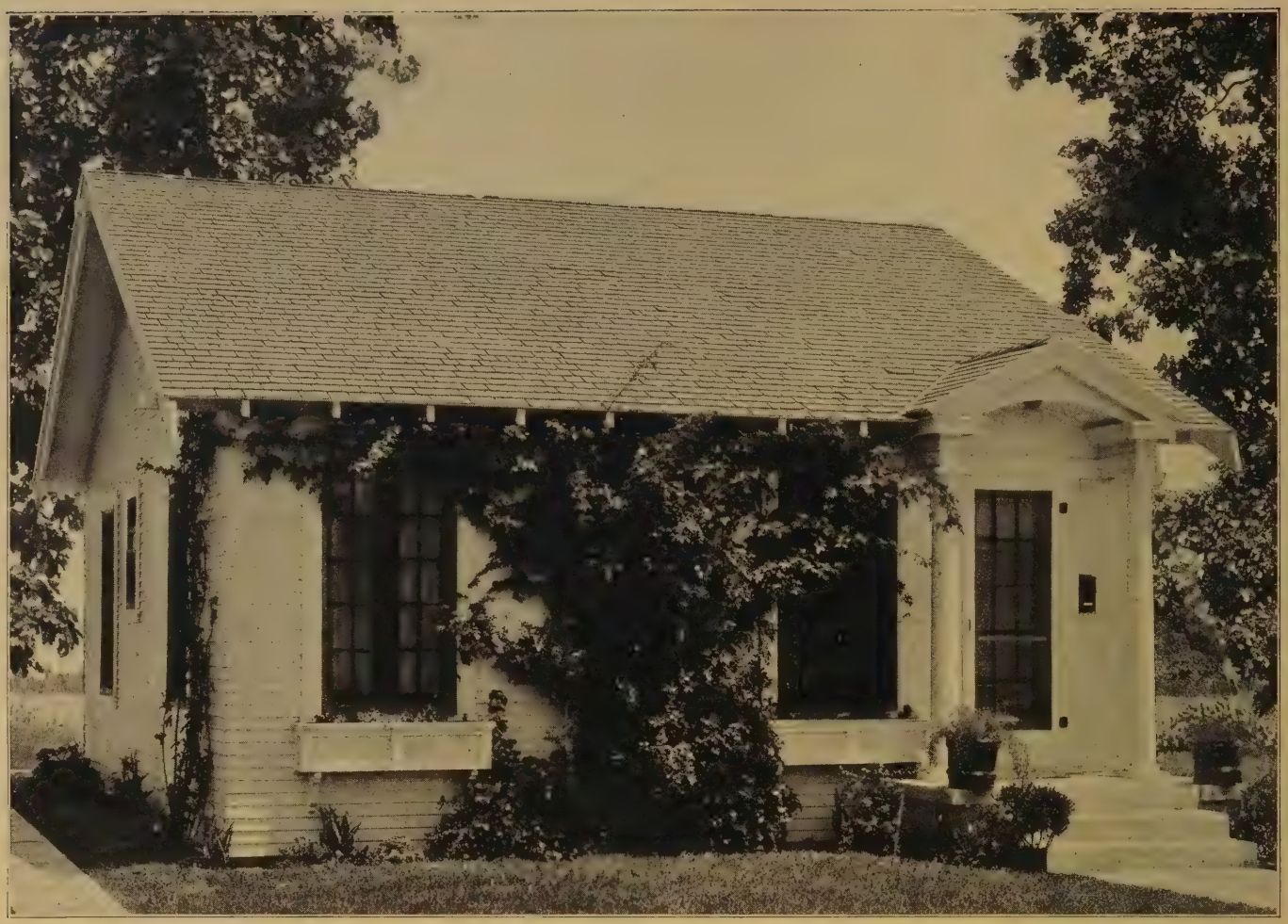


PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

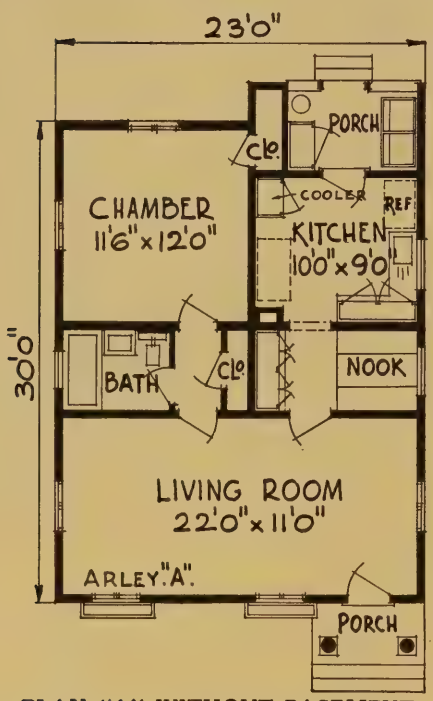
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



3 Rooms, Bath and Dining Nook

"The ARLEY"

23 Ft. Wide x 30 Ft. Deep



PLAN "A" WITHOUT BASEMENT

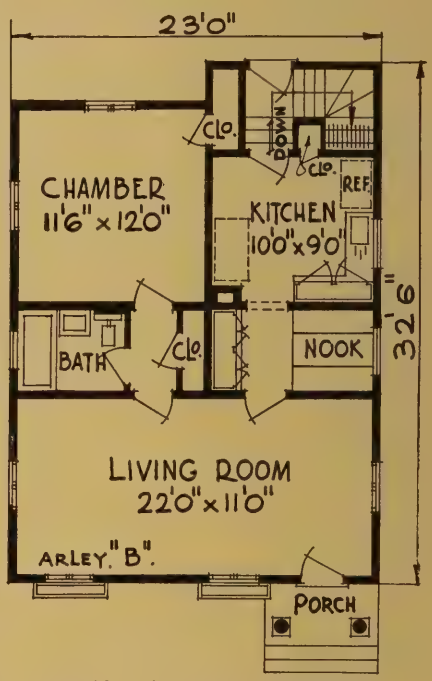
A GEM of the whitest hue, trim of line, and decorative of detail. The interior is coziness incarnate from the breakfast nook to the handy kitchen. The "Arley" is the realization of the dreams of the newly weds. Where could they find a more blissful setting to begin life?

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	26' 0"
Extreme Depth	40' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

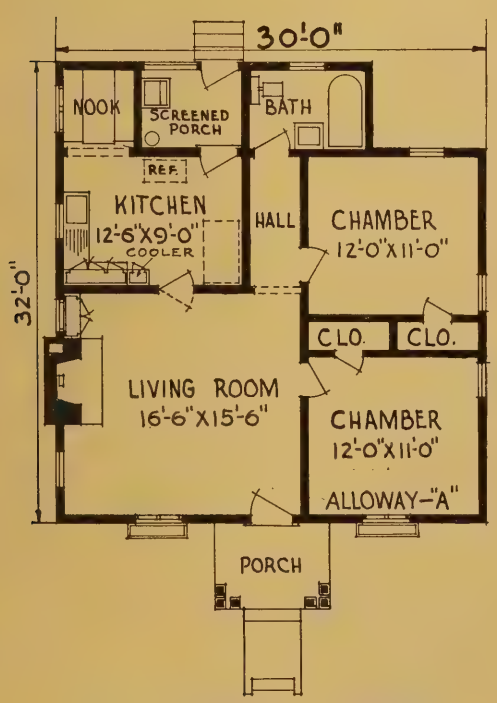
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Nook

"The ALLOWAY"

30 Ft. Wide x 32 Ft. Deep



PLAN "A" WITHOUT BASEMENT

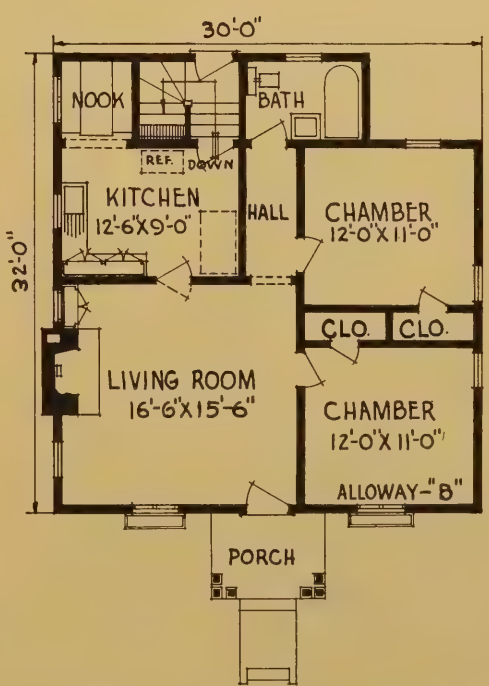
A PLAIN bungalow yet of obviously good quality and taste, A cozy breakfast nook is found off the kitchen. There are two floor plans to choose from.

SIZES:

Extreme Width . . . . 32' 0"
Extreme Depth—
Plan "A" . . . . . 47' 0"
Extreme Depth—
Plan "B" . . . . . 45' 0"
Main Floor Ceiling . . 9' 0"
Basement Ceiling—
Plan "B" . . . . . 7' 0"

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

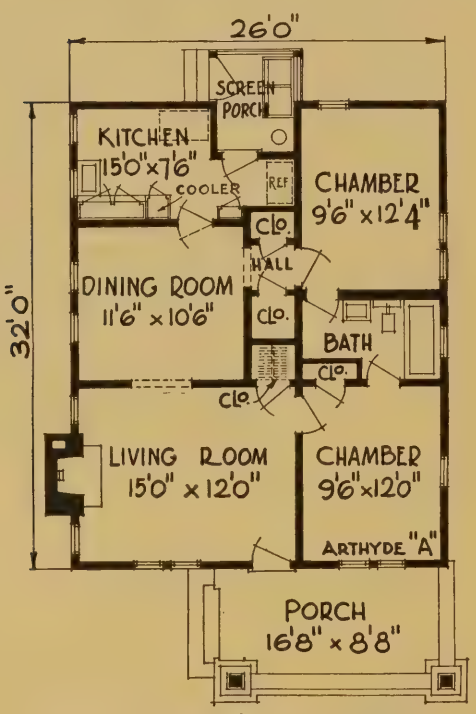


5 Rooms and Bath

"The ARTHYDE"

26 Ft. Wide x 32 Ft. Deep

A BUNGALOW deserving of its popularity. It is surprising to find out just how inexpensively homes of this type can be built. Then there is the convenience of having all the rooms on one floor. The "Arthyde" is a strong argument for owning your home.



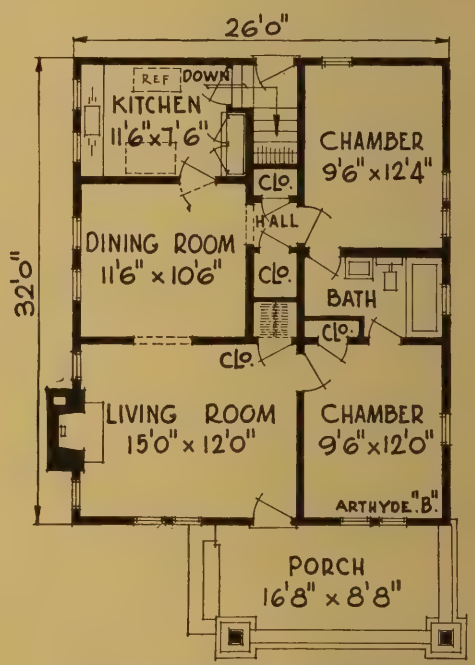
PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	33' 6"
Extreme Depth—Plan "A"	48' 0"
Extreme Depth—Plan "B"	45' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

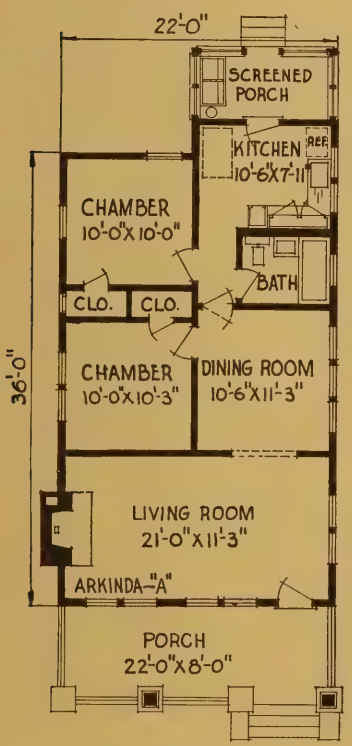
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ARKINDA"

22 Ft. Wide x 36 Ft. Deep



PLAN "A"
WITHOUT BASEMENT

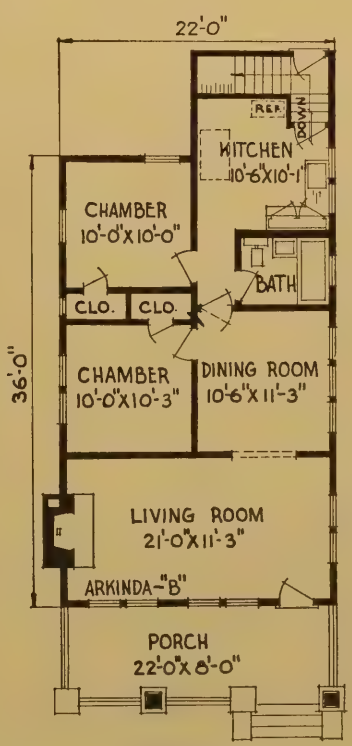
THE "Arkinda" offers an appealing exterior and comfortable living on one floor. A breeze-swept porch that is ornamental as well as restful is seen at the front. Furthermore, the "Arkinda" offers all these things at an exceptionally moderate cost.

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	26' 0"
Extreme Depth—Plan "A"	58' 0"
Extreme Depth—Plan "B"	57' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"



PLAN "B"
WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

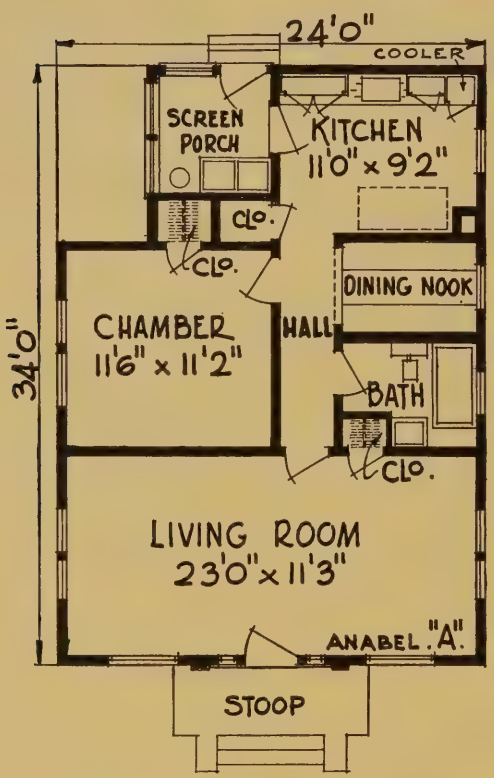
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



3 Rooms, Bath and Dining Nook

"The ANABEL"

24 Ft. Wide x 34 Ft. Deep



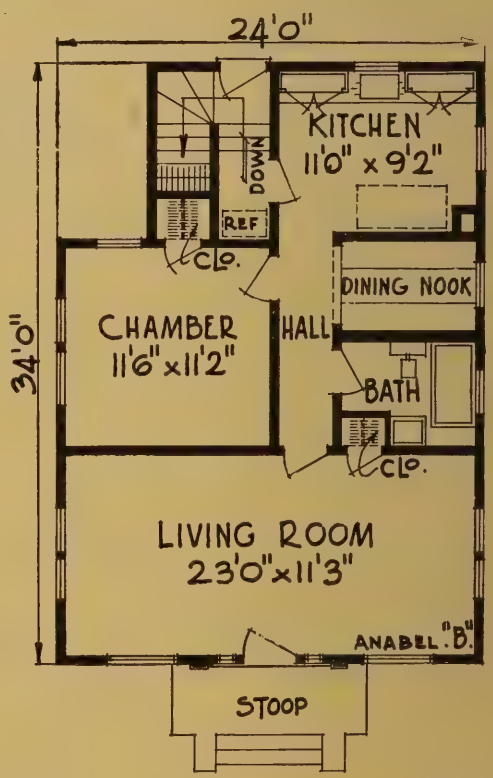
PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	27' 0"
Extreme Depth	41' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling Plan "B"	7' 0"



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

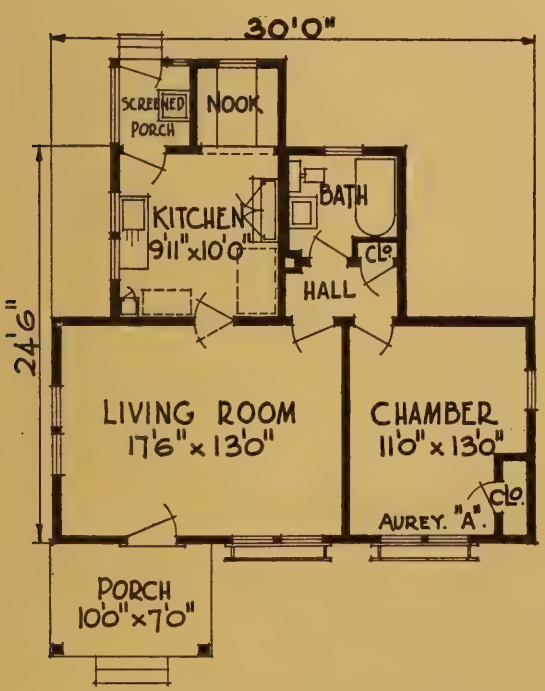
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



Each Plan—3 Rooms, Bath and Nook

"The AUREY"

30 Ft. Wide x 30 Ft. Deep



PLAN "A'—WITHOUT BASEMENT

Important

When ordering plans of this design state whether wanted with or without basement.

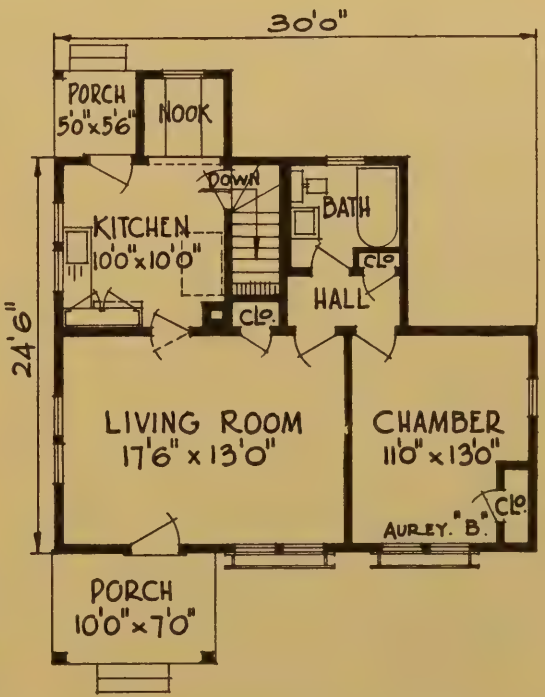
SIZES:

Extreme Width 32' 6"

Extreme Depth 40' 6"

Main Floor Ceiling ..... 8' 6"

Basement Ceiling Plan "B" .. 7' 0"



PLAN "B"—WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

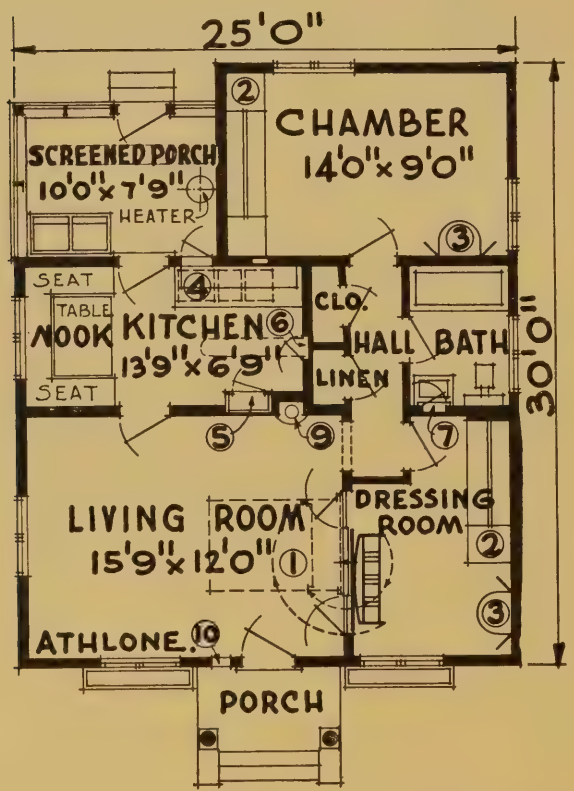
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



3 Rooms, Bath, Dressing Room and Screened Porch

"The ATHLONE"

25 Ft. Wide x 30 Ft. Deep



AN attractive three room bungalow with five room efficiency. Disappearing bed in living room and dining nook in kitchen give two extra rooms without the added building costs. This home is designed without a basement, —the screened porch to be used as laundry. The kitchen is fully equipped with practical efficiency devices. The outside walls of this home are insulated with cane fibre sheathing lumber.

KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Bed"
2—"Dressing Cabinet"
3—"Dressing Table'
4—"Combination Kitchen Cabinet, Sink, Gas or Electric Range and Refrigerator"
5—"China Cabinet"
6—"Built-in" Ironing Board"
7—"Medicine Cabinet"
9—"Telephone Cabinet"
10—"Built-in Mail Box"

SIZES:

Extreme Width	28' 6"
Extreme Depth	37' 6"
Main Floor Ceiling	8' 6"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Sun Room

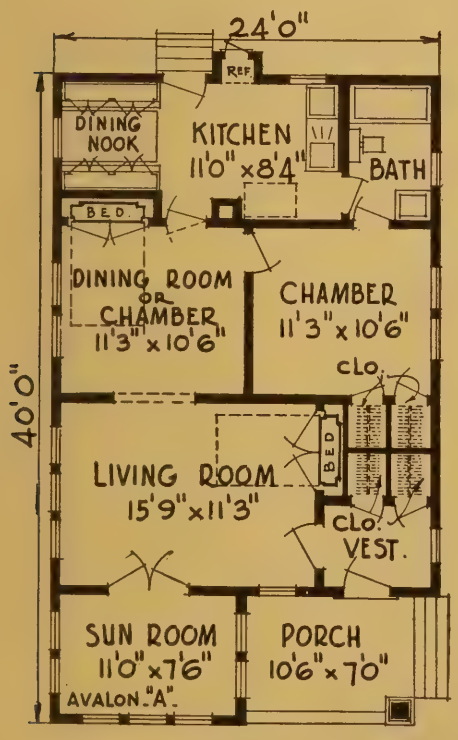
"The AVALON"

24 Ft. Wide x 40 Ft. Deep

SNUG and neat, a home that can suitably be placed in the open or tucked away in a clump of trees. It is replete with conveniences such as a disappearing bed in the living room and space saving closet fixtures. The "Avalon" is a pleasure to return to.

SIZES:

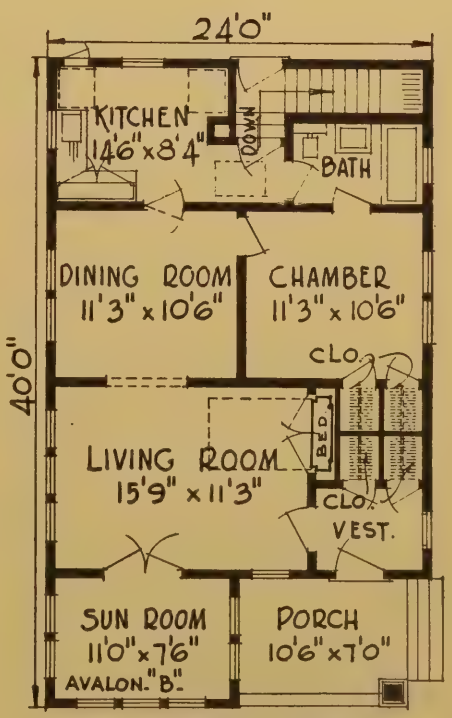
Extreme Width	**27′ 0″**
Extreme Depth	**44′ 0″**
Main Floor Ceiling	**8′ 6″**
Basement Ceiling—Plan "B"	**7′ 0″**



PLAN "A" WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement. L



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

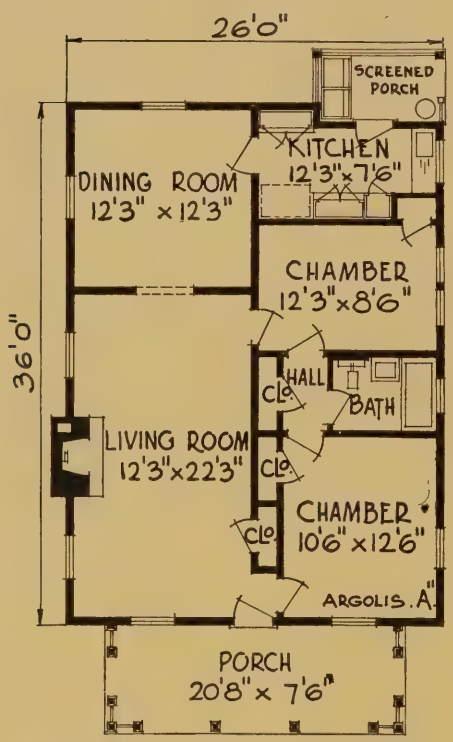
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ARGOLIS"

26 Ft. Wide x 36 Ft. Deep



PLAN "A" WITHOUT BASEMENT

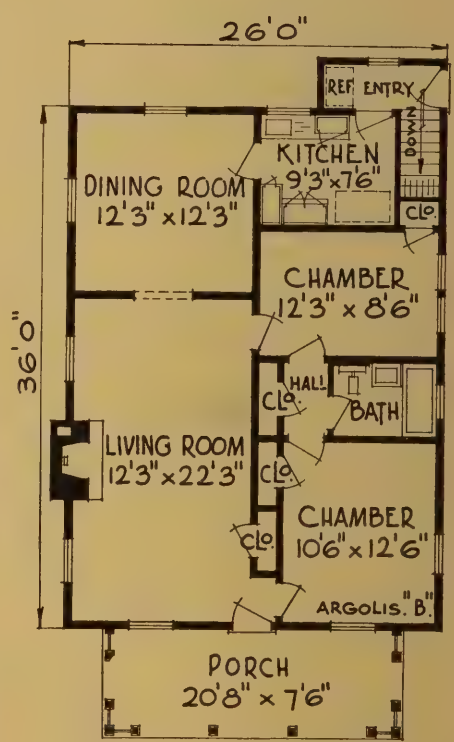
THIS small home offers many modern conveniences. Two floor plans are shown with and without basement. The exterior is pleasing and attractive.

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.

SIZES:

Extreme Width	**29′ 6″**
Extreme Depth	**50′ 0″**
Main Floor Ceiling	**9′ 0″**
Basement Ceiling—Plan "B"	**7′ 0″**



PLAN "B" WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

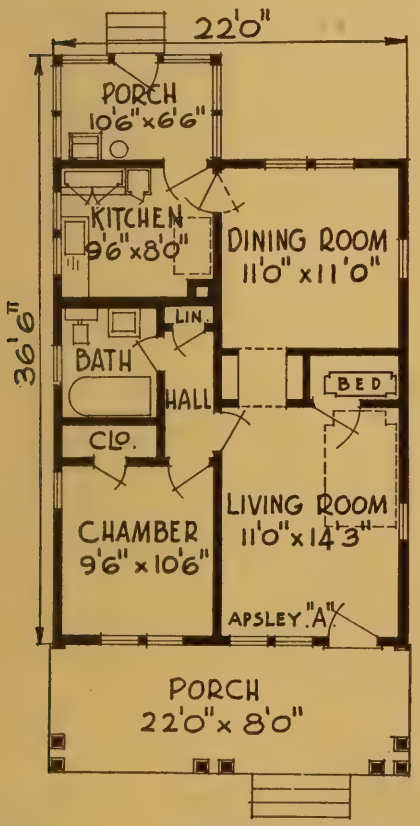
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms and Bath

"The APSLEY"

22 Ft. Wide x 36 Ft. 6 In. Deep



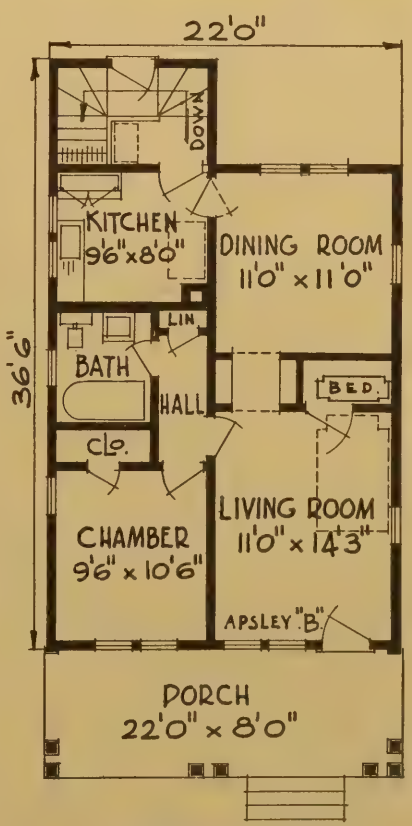
A POPULAR bungalow at a low price. A disappearing bed in the living room is featured.

SIZES:

Extreme Width	25′ 0″
Extreme Depth—Plan "A"	49′ 6″
Extreme Depth—Plan "B"	48′ 6″
Main Floor Ceiling	8′ 6″
Basement Ceiling—Plan "B"	7′ 0″

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT

PLAN "B"—WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

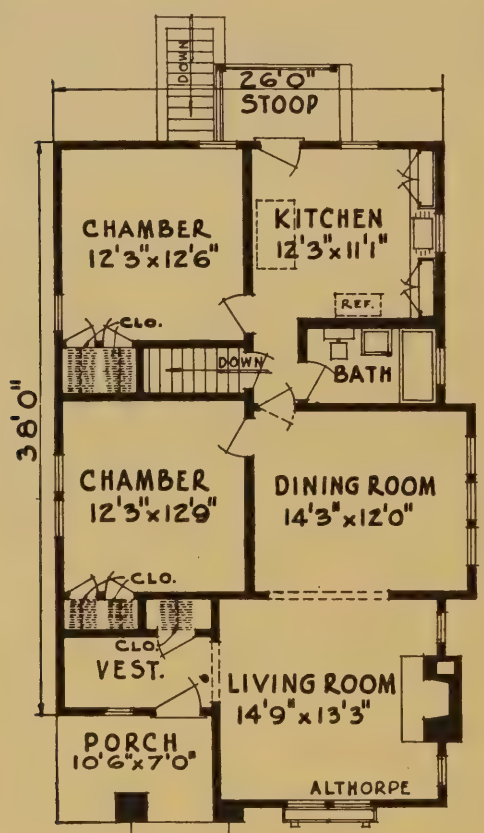
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALTHORPE"

26 Ft. Wide x 44 Ft. Deep



RUSTIC shingles stained dark make an admirable background for the white trim and brick chimney. A compact bungalow insuring pleasant living; its very compactness making it inexpensive to build and to heat. Space saving closet fixtures are shown throughout.

Stained shingles possess great weathering qualities, thereby considerably increasing the durability of the home.

SIZES:

Extreme Width	29' 0"
Extreme Depth	54' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

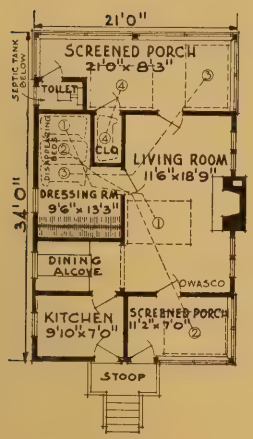
Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

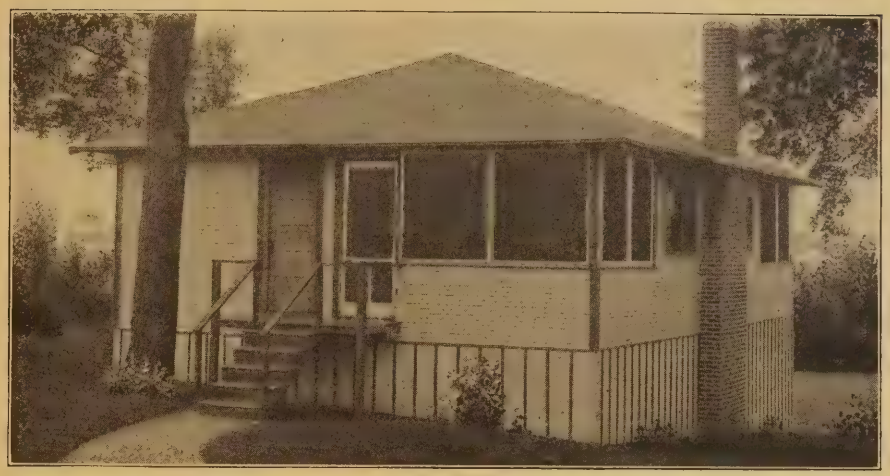
$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

SUMMER CAMPS AND LODGES



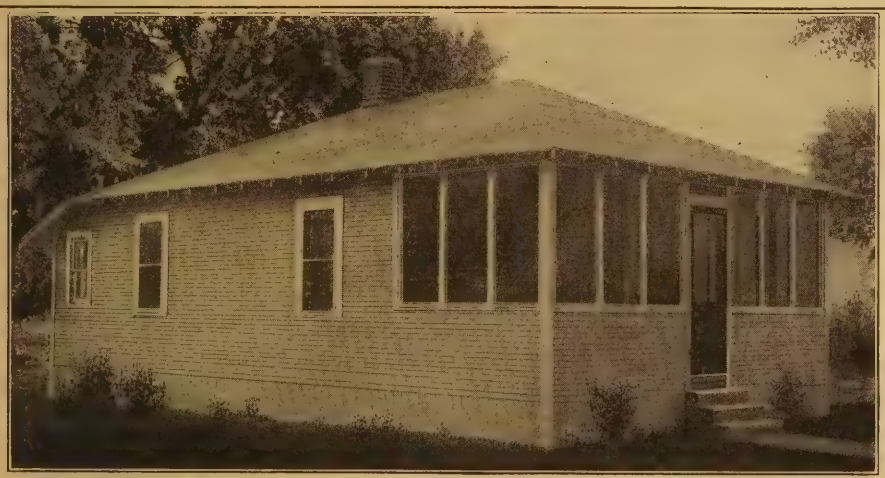


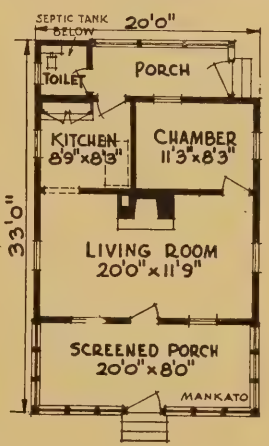
21 Ft. Wide x 34 Ft. Deep

"The OWASCO"

2 Rooms, Toilet, Dressing Room and Porches

An ideal arrangement in which unobstructed floor spaces during the day are converted into sleeping quarters at night, by using disappearing beds.



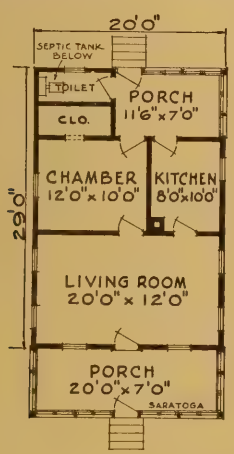


3 Rooms, Toilet and Porches

"The MANKATO"

20 Ft. Wide x 33 Ft. Deep

"The Mankato" has qualities which make an instant appeal to those desiring a modest summer home of this size.





20 Ft. Wide x 36 Ft. Deep

"The SARATOGA"

3 Rooms, Toilet and Porches

A glazed-in porch is always desirable. Also, there are many other features which make this design very popular.

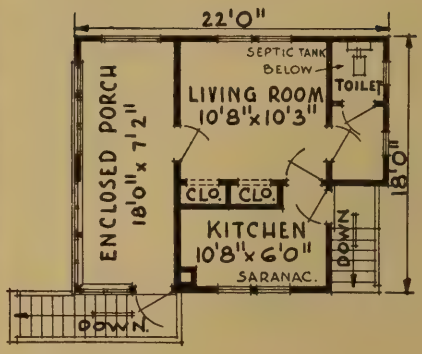
Two (2) Complete Sets **Blue-Print Working Plans** for any design on this page..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

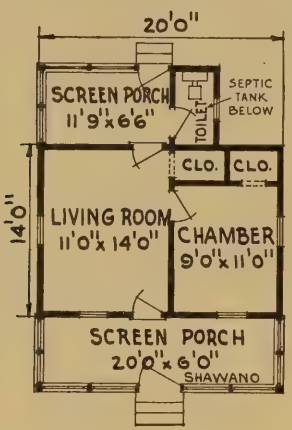
SUMMER CAMPS AND LODGES





2 Rooms, Porch and Toilet — **"The SARANAC"** — **22 Ft. Wide x 18 Ft. Deep**

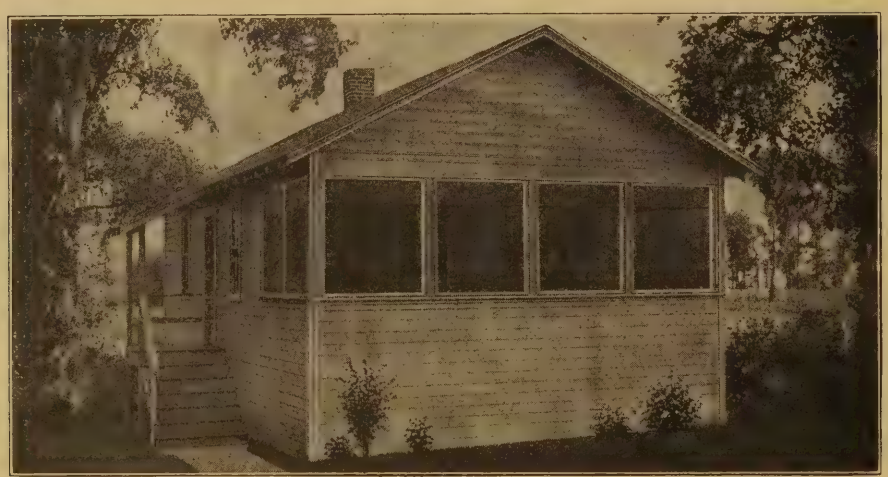
A little place away from the sweltering city—for recreation and play.

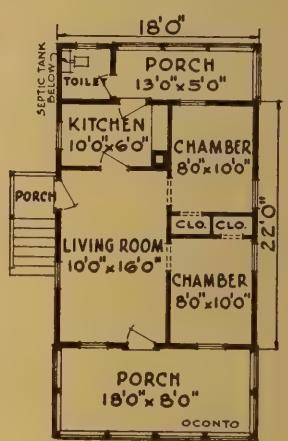




20 Ft. Wide x 26 Ft. 6 In. Deep — **"The SHAWANO"** — **2 Rooms, Toilet and Porches**

The small investment required to build "The Shawano" will be returned in payments of renewed vigor, health, happiness and satisfaction.





4 Rooms, Porches and Toilet — **"The OCONTO"** — **18 Ft. Wide x 35 Ft. Deep**

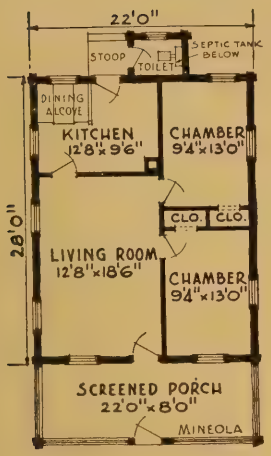
The blue print plans are completely detailed in such a manner that any builder can easily erect without delay or misunderstanding

Two (2) Complete Sets **Blue-Print Working Plans** for any design on this page..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

SUMMER CAMPS AND LODGES





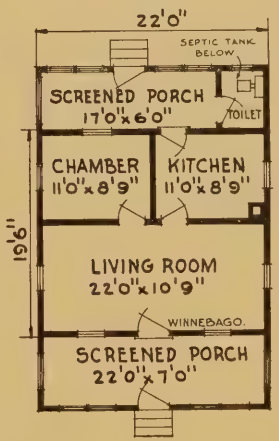
22 Ft. Wide x 40 Ft. Deep

"The MINEOLA"

4 Rooms, Toilet and Porch

When one considers the quaint, simple attractiveness of the "Mineola" it is not suprising that so many similar types are found along the shores of our lakes and rivers



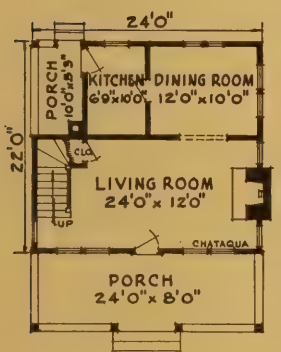


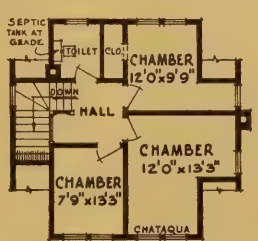
3 Rooms, Porches and Toilet

"The WINNEBAGO"

22 Ft. Wide x 32 Ft. 6 In. Deep

A lodge built in the woods or near the water shore is an investment in happiness and health.





Blue print plans give full construction details.



24 Ft. Wide x 30 Ft. Deep

"The CHATAUQUA"

6 Rooms, Toilet and Porches

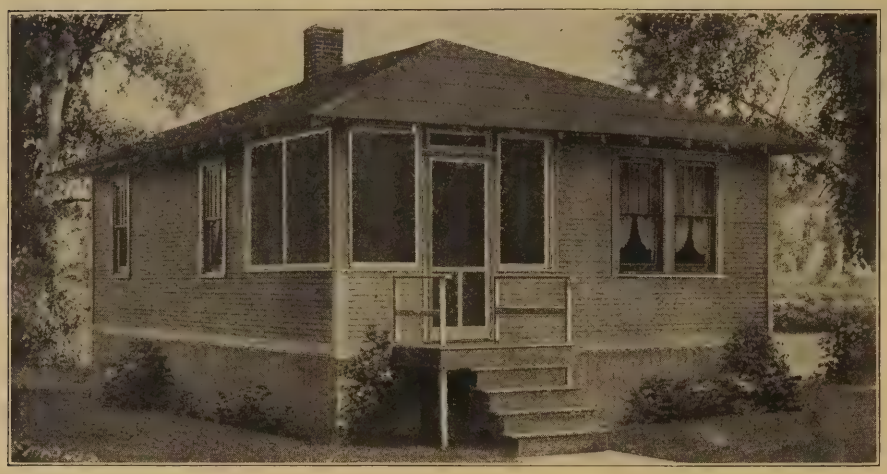
"The Chatauqua" is an attractive summer cottage, conveniently designed to offer the advantages of a two-story home.

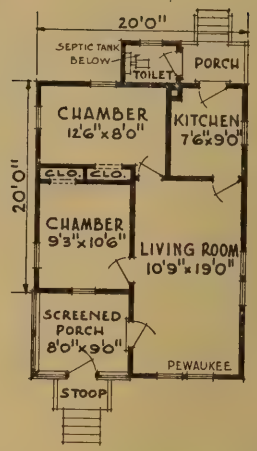
Two (2) Complete Sets **Blue-Print Working Plans** for any design on this page..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

SUMMER CAMPS AND LODGES



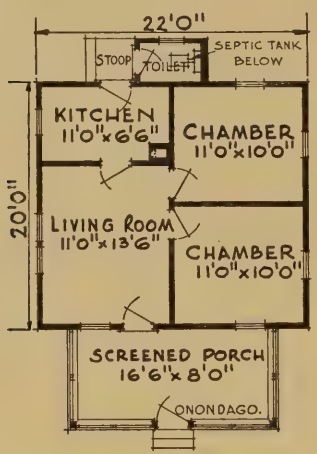


4 Rooms, Porches and Toilet

"The PEWAUKEE"

20 Ft. Wide x 32 Ft. Deep

Vacation time—swimming, boating and rest in a cottage by the lake.





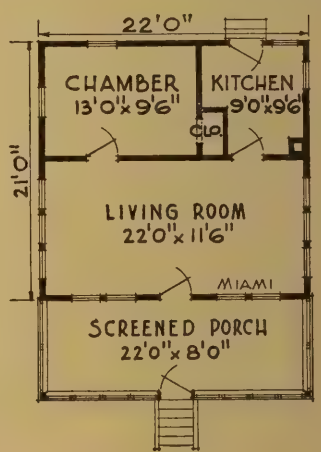
22 Ft. Wide x 31 Ft. 6 in. Deep

"The ONONDAGO"

4 Rooms, Toilet and Porch

The benefits in health and happiness more than offset the moderate cost of "The Onondago."





3 Rooms and Porch

"The MIAMI"

22 Ft. Wide x 29 Ft. Deep

The blue prints provide for substantial economical construction and prevent costly errors.

Two (2) Complete Sets **Blue-Print Working Plans** for any design on this page..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

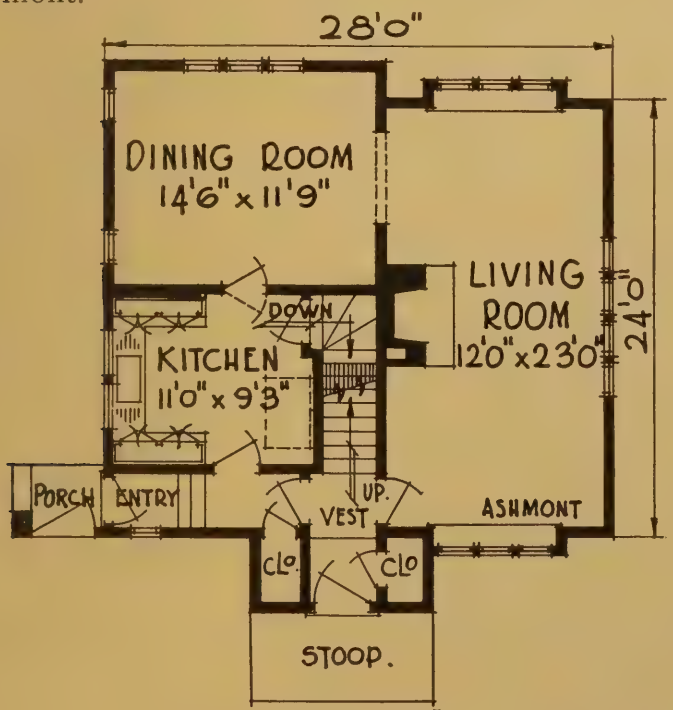


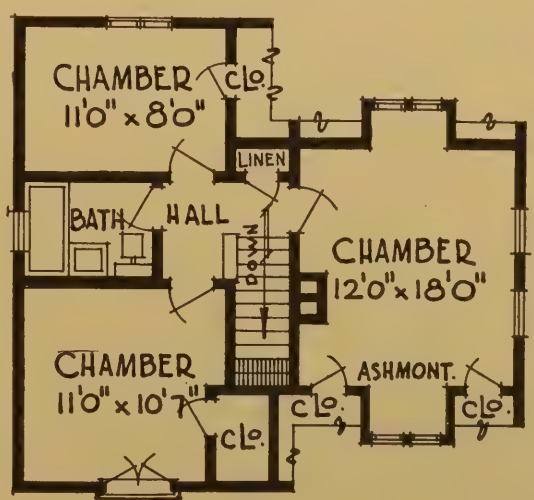
6 Rooms and Bath

"The ASHMONT"

28 Ft. Wide x 24 Ft. Deep

DONE in stucco with occasional trellis work, or iron railing, giving it a gem-like appearance. By placing the kitchen at the front with entrance on the side, the entire rear is left for garden space. Large rooms admirably arranged, mark the interior of the "Ashmont."





SIZES:

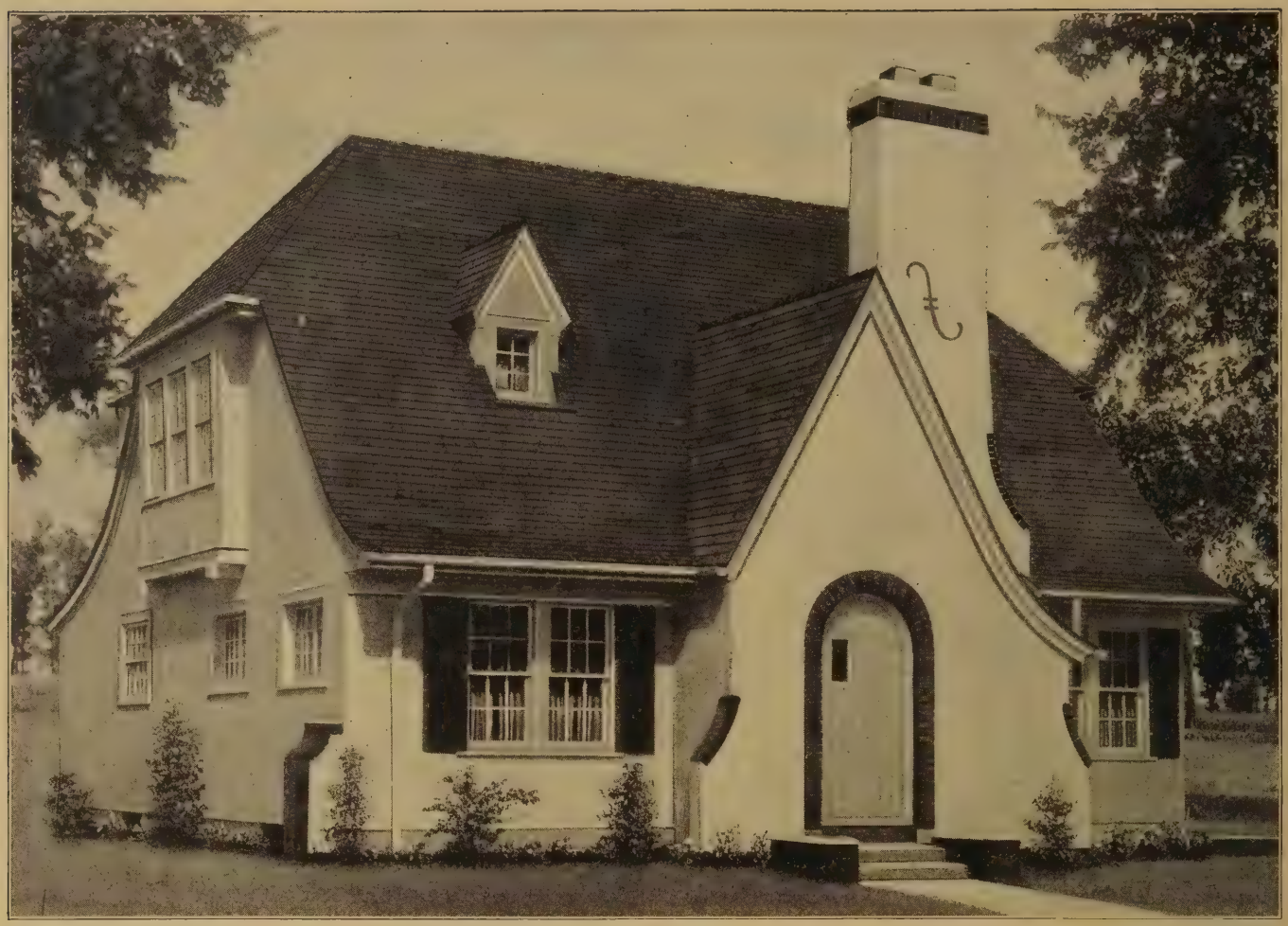
Extreme Width	34' 0"
Extreme Depth	35' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

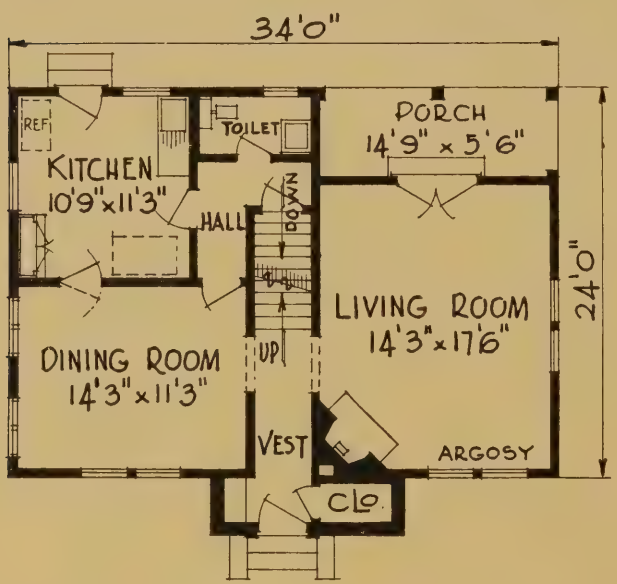
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



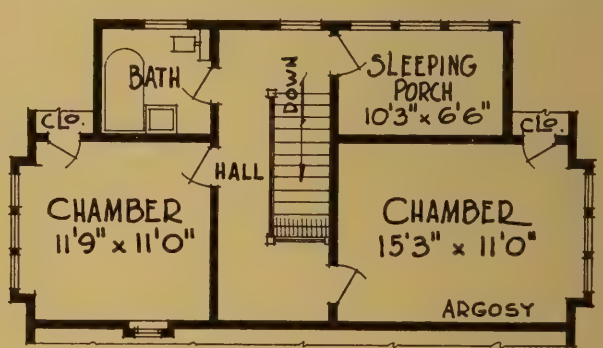
5 Rooms, Bath, Toilet and Sleeping Porch

"The ARGOSY"

34 Ft. Wide x 24 Ft. Deep



UNIQUE in appearance, yet in perfect taste. A chimney and entrance were never more artistically contrasted. The living room with its corner fire place opens onto a private porch in the rear. There is a corresponding sleeping porch above.



SIZES:

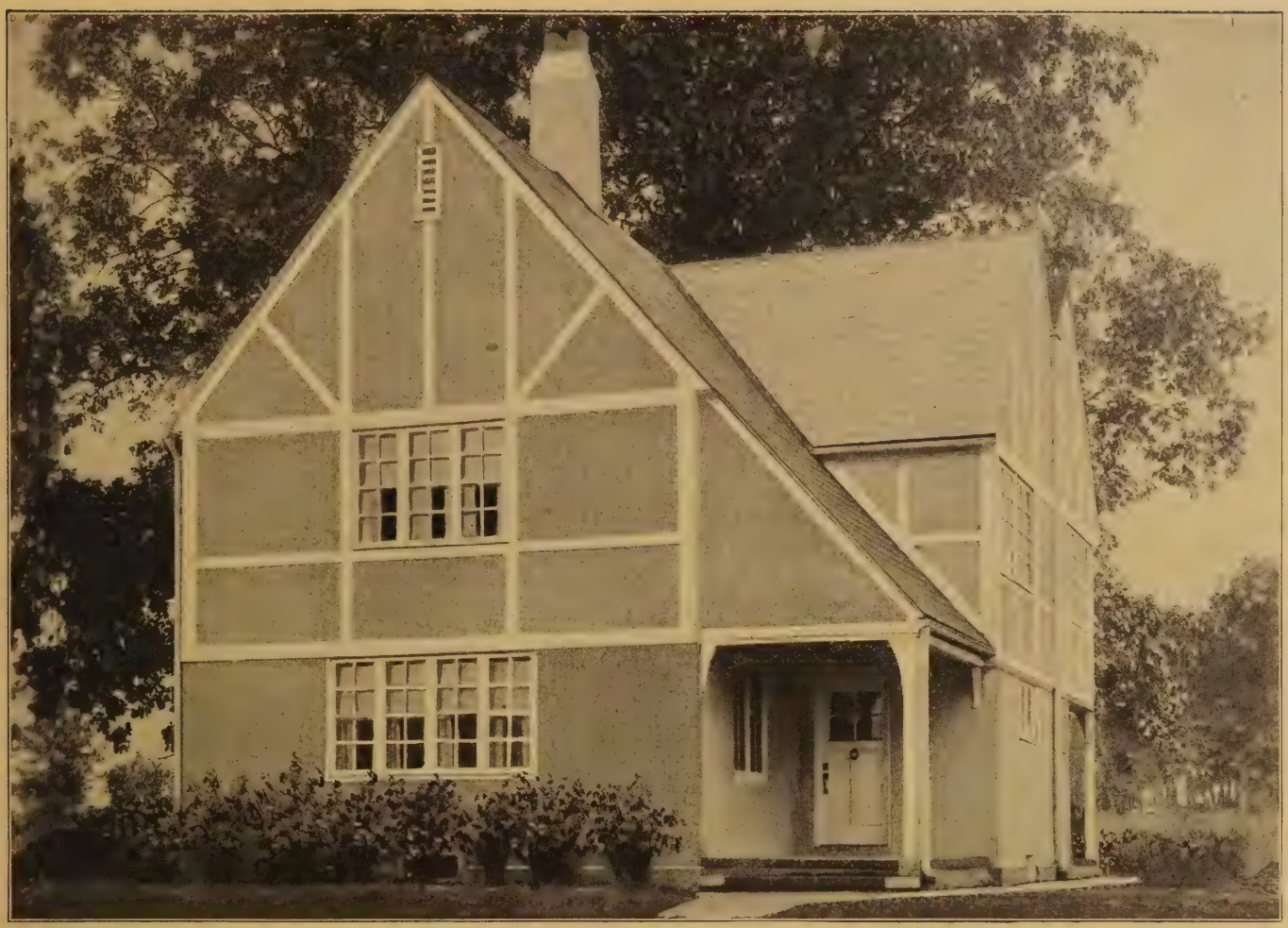
Extreme Width	37' 6"
Extreme Depth	32' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

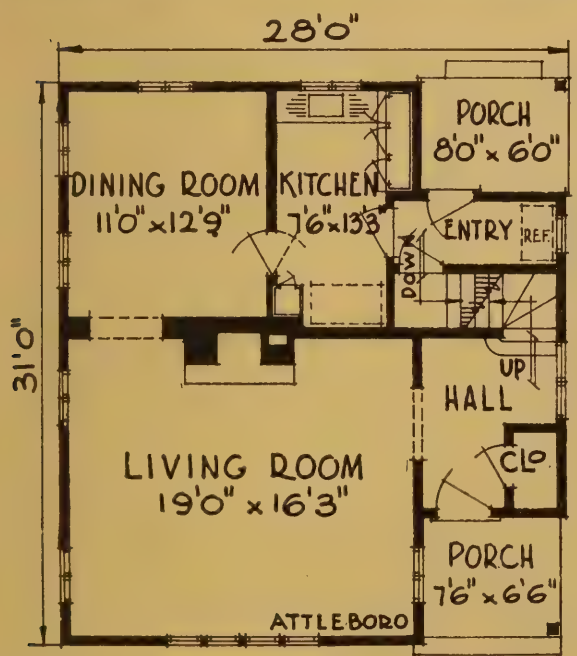
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms, Bath and Sewing Room

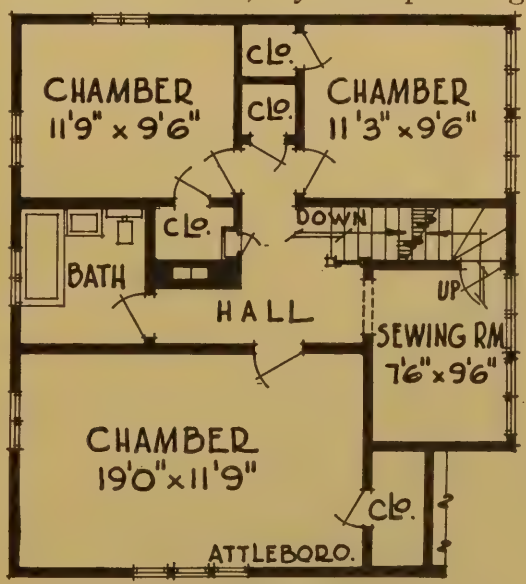
"The ATTLEBORO"

28 Ft. Wide x 31 Ft. Deep



AN attractive home of comfort and beauty, the half timbers form a pleasing contrast with the stucco covered walls.

The interior shows the designers thoughtful consideration for the house wife, by incorporating such conveniences as a clothes chute, kitchen cabinets and an upstairs sewing room.



SIZES:

Extreme Width	30′ 0″
Extreme Depth	33′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

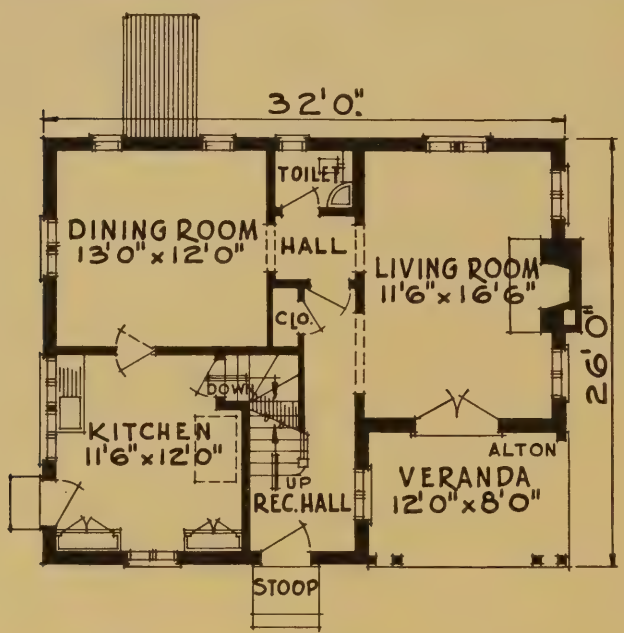
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



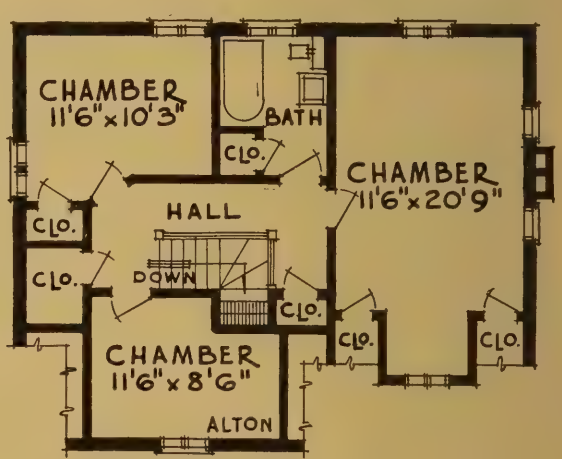
6 Rooms, Bath and Toilet

"The ALTON"

32 Ft. Wide x 26 Feet Deep



THIS illustration is sure to attract the attention of the discriminating builders interested in modern small homes. It is characterized as English by its steep roof, by its casements and by its squatty chimney. The old Colonial shutters are pleasing and very effective in completing this handsome home. The outside walls are tile and stucco with brick trimmings.



SIZES:

Extreme Width	33' 0"
Extreme Depth	38' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

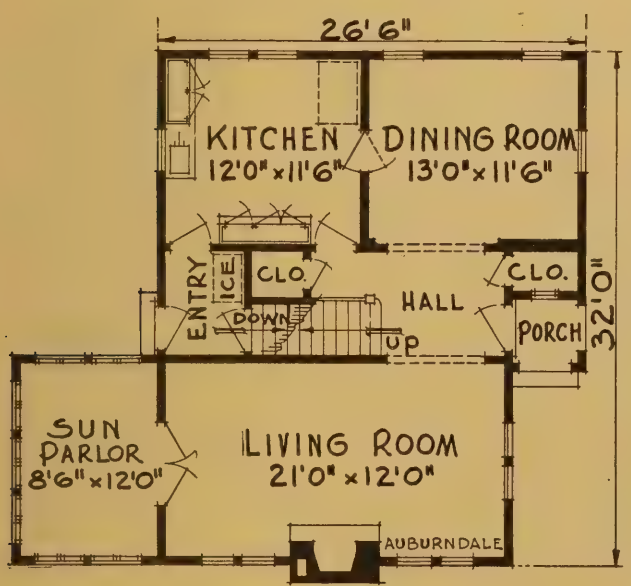
HOME BUILDERS CATALOG CO.



6 Rooms, Bath and Sun Parlor

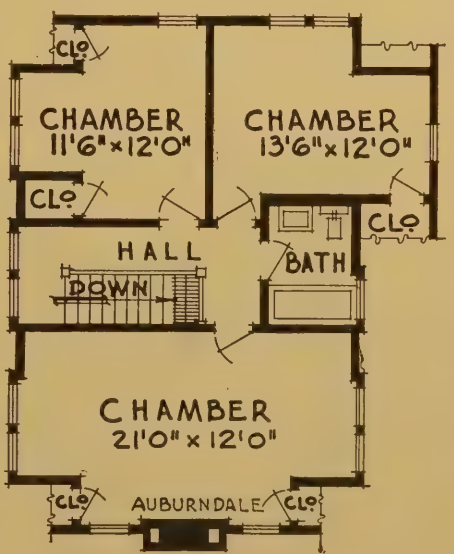
"The AUBURNDALE"

26 Ft. 6 In. Wide x 32 Ft. Deep



THIS old English Home is for the wide or the average lot and will have pleasantly located rooms, no matter which way it faces. It is worthy of the most exclusive residence section and yet it is reasonable in cost. The outside walls are frame construction with stucco on metal lath.

Economy in Materials and Labor are Carefully Considered in the Designing of These Homes



SIZES:

Extreme Width	37' 0"
Extreme Depth	34' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

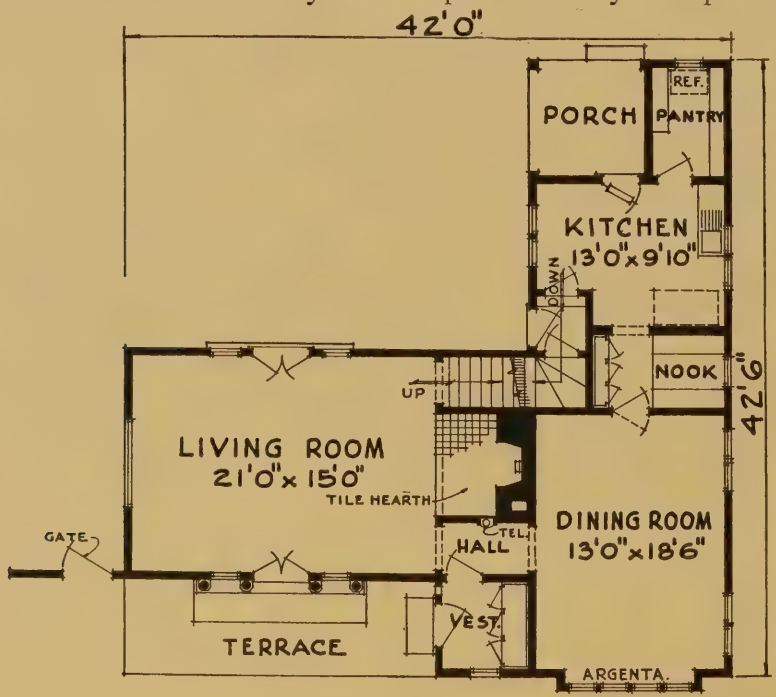


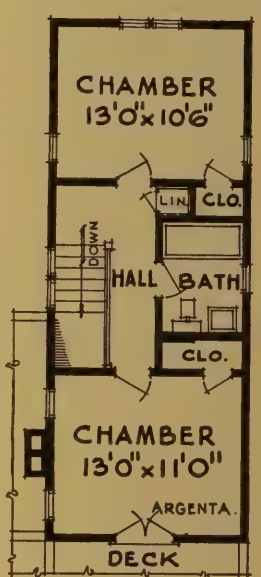
5 Rooms, Bath and Dining Nook

"The ARGENTA"

42 Ft. Wide x 42 Ft. 6 In. Deep

RECALLING the splendor of Moorish architecture, the "Argenta" fits well into any landscape. The style is particularly adaptable to the modern methods, as is seen in studying the floor plan. It is a home for those who like to live in a rich and luxurious atmosphere.





SIZES:

Extreme Width	50' 6"
Extreme Depth	44' 0"
Living Room Ceiling	12' 0"
First Floor Ceiling (Balance)	9' 0"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

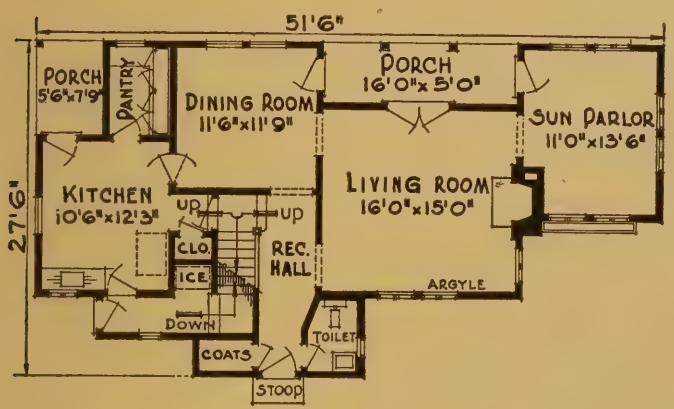


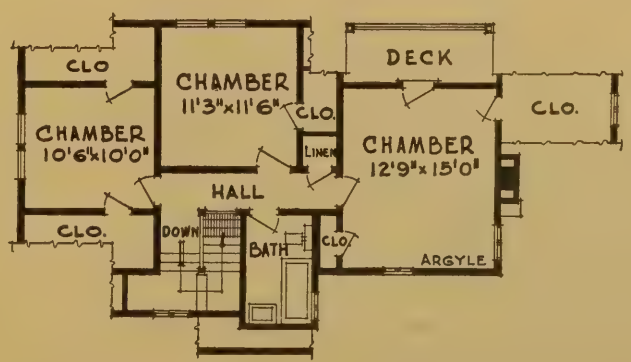
6 Rooms, Bath and Sun Parlor

"The ARGYLE"

51 Ft. 6 In. Wide x 27 Ft. 6 In. Deep

IN ITS design this modern American home is suggestive of the ever popular English cottage style—possible because of its steep roof pitch, the half timbered gable and the squatty brick chimney. It is all frame construction with metal lath and stucco covering for the outside walls. The Argyle is suitable for city or country, almost any location and planned so that it will be reasonable to build.





SIZES:

Extreme Width	53' 0"
Extreme Depth	31' 0"
First Floor Ceiling	8' 8"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design $20.00
One (1) Classified Guide (16 Pages) for listing all Material Items .....
One (1) Set of Specifications and Two (2) Blank Contract Forms .....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

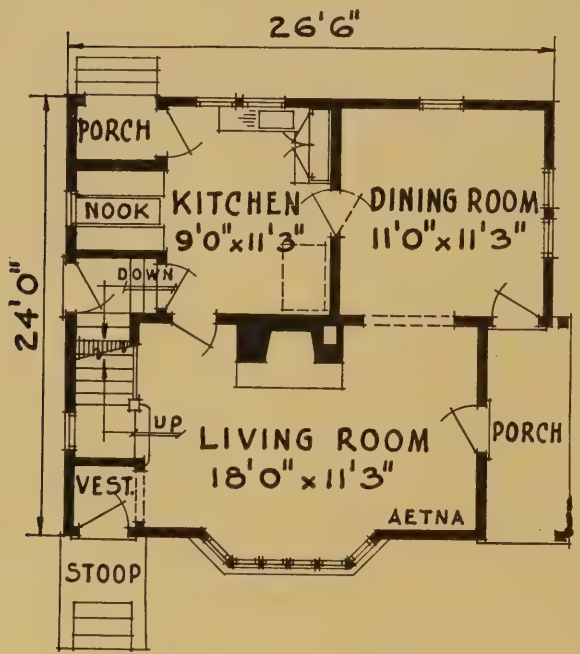
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms, Bath and Nook

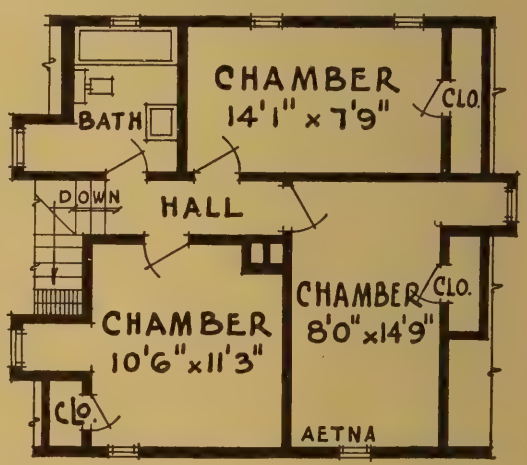
"The AETNA"

26 Ft. 6 In. Wide x 24 Ft. Deep



A HOME of individuality. Done in stucco on metal lath. The brick bay and entrance serve to enhance the beauty of the stucco.

The living room with its bay, fireplace and porch adjacent, is a dream.



SIZES:

Extreme Width	33′ 6″
Extreme Depth	28′ 6″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit,—New York.



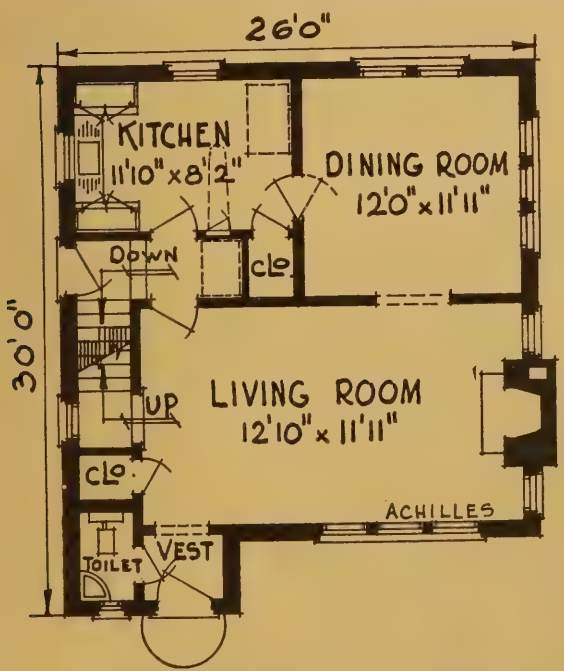
6 Rooms, Bath and Toilet

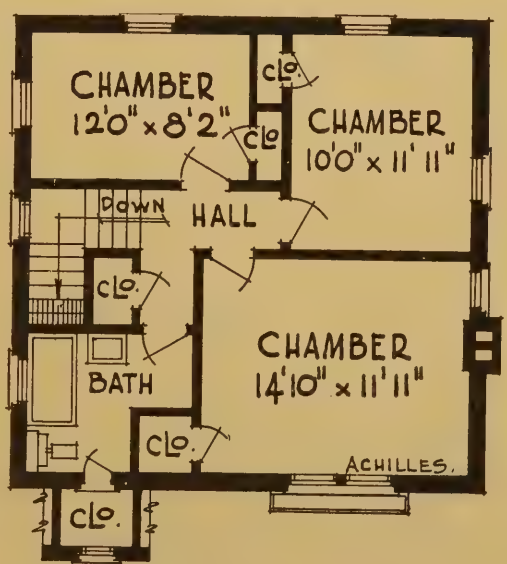
"The ACHILLES"

26 Ft. Wide x 26 Ft. Deep

THE "ACHILLES" insures domestic happiness. An artistic exterior coupled with a comfortable and convenient interior makes it the perfect home for a small family.

Built-in kitchen conveniences and a toilet on the first floor are among the special features. Stucco on cinder building blocks.





SIZES:

Extreme Width	27' 6"
Extreme Depth	34' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

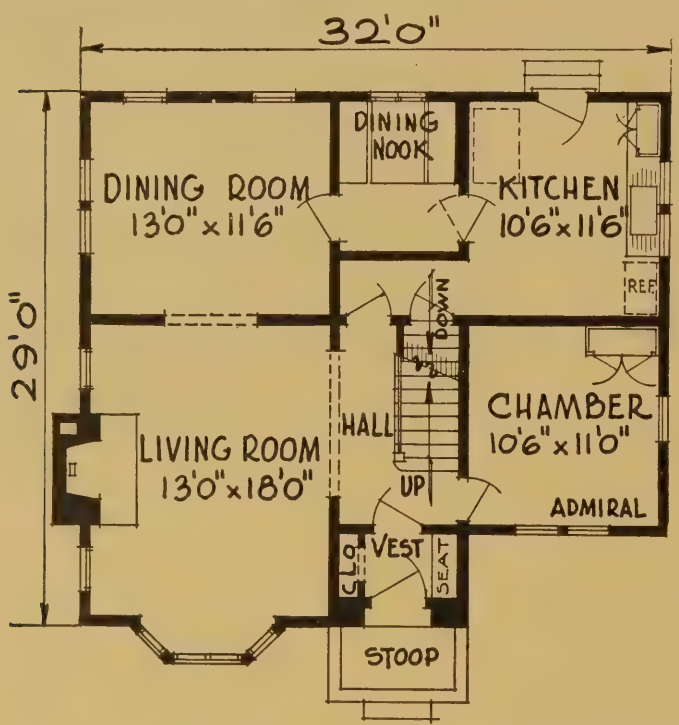


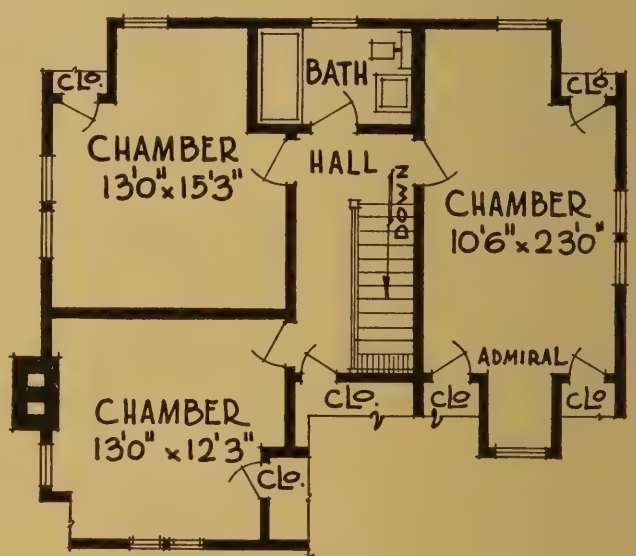
7 Rooms, Bath and Nook

"The ADMIRAL"

32 Ft. Wide x 29 Ft. Deep

STUCCO, brick chimney, shutters, and recessed entrance are but a few of the attractive features of the "Admiral." The bay in front lends added charm. The arrangement of rooms offers many fascinating ways of furnishing.





SIZES:

Extreme Width	35' 0"
Extreme Depth	36' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) Set of **Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

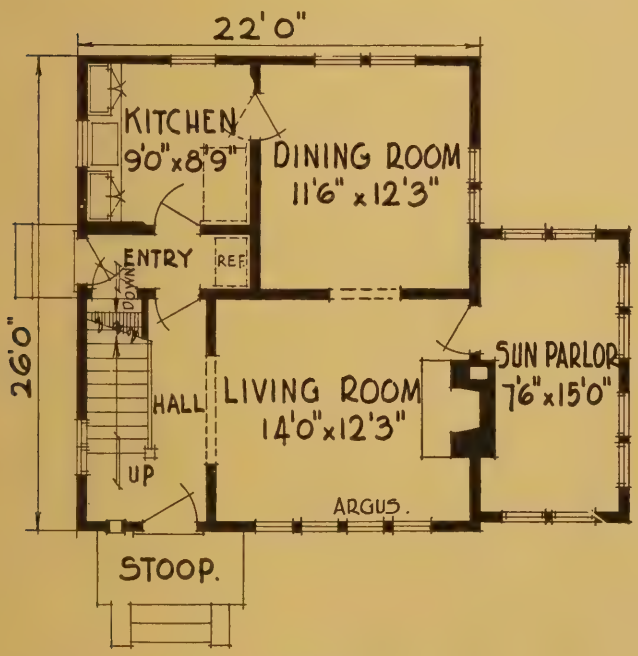
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms, Bath and Sun Parlor

"The ARGUS"

22 Ft. Wide x 26 Ft. Deep

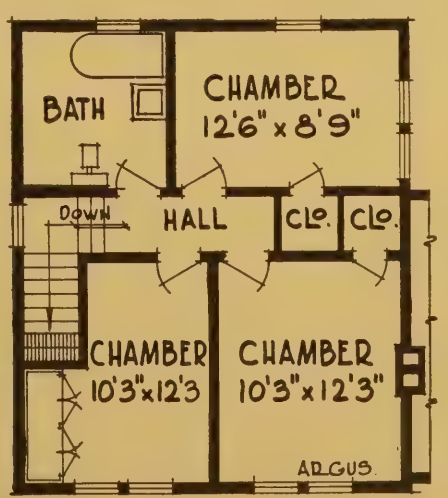


SIZES:

Extreme Width	34' 6"
Extreme Depth	34' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

NEATLY and attractively done in stucco. Of the English type, and justifying its popularity.

The living room and adjacent sun parlor promise pleasant days and evenings. The stucco is mounted on sheathing lath, The bath is easily accessible to all chambers.



Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

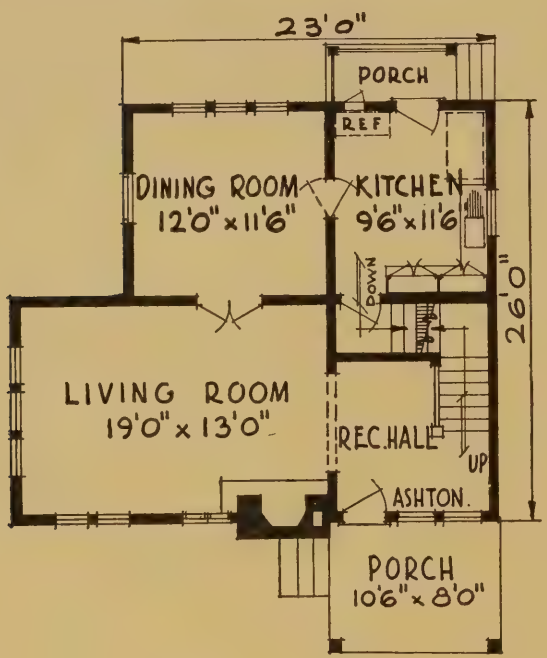
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



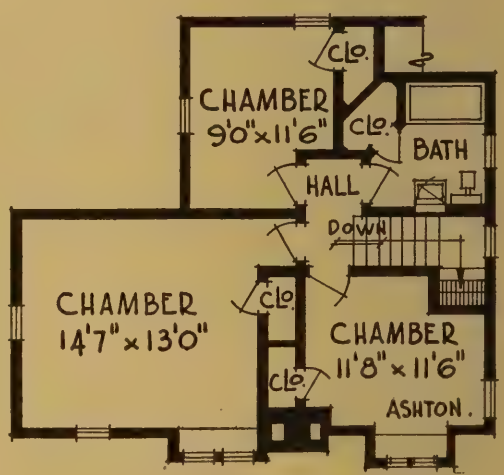
6 Rooms and Bath

"The ASHTON"

30 Ft. Wide x 26 Ft. Deep



LARGE, pleasant and attractive are the impressions given by the "Ashton." A welcoming reception hall opens into a spacious living room. Large chambers upstairs, one increased in size by an oriel window and one by a dormer, all make for comfortable living.



SIZES:

Extreme Width	31' 0"
Extreme Depth	35' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

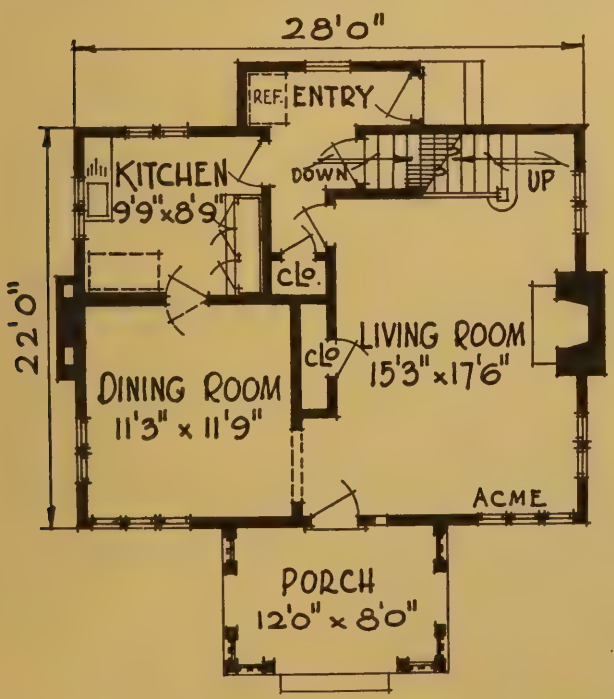


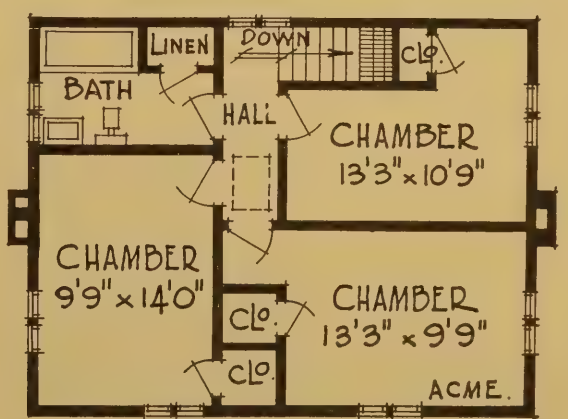
6 Rooms and Bath

"The ACME"

28 Ft. Wide x 22 Ft. Deep

THE perfect home for the family desiring adequate luxury and comfort at a moderate price. The stucco is on metal lath. The "Acme" boasts of nothing elaborate, but perfect taste is evident, inside and out. The two flanking chimneys add dignity and distinction.





SIZES:

Extreme Width	31' 6"
Extreme Depth	35' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



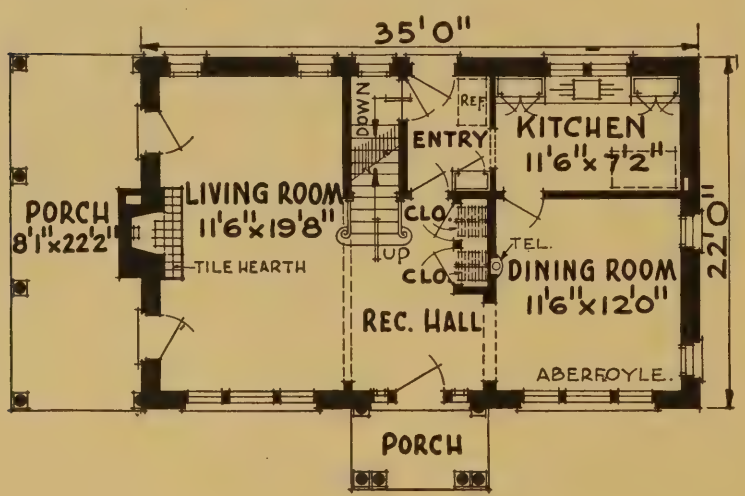
6 Rooms and Bath

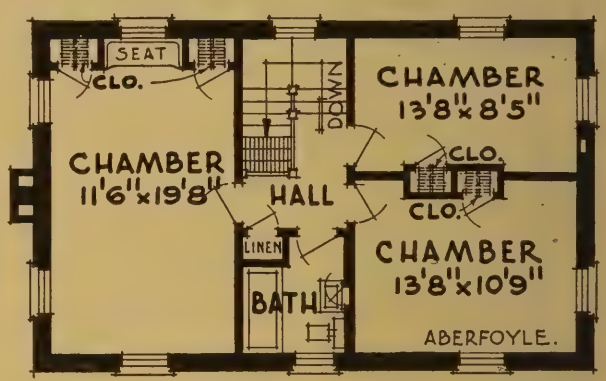
"The ABERFOYLE"

35 Ft. Wide x 22 Ft. Deep

OUT OF the past decades of American architecture comes the "Aberfoyle." While it is in the style of our forefathers, it is strictly modern in construction and equipment. Then there are many people who are quite imbued with our past and seriously wish to keep up traditions. The "Aberfoyle" is for them.

THE OUTSIDE WALLS OF THIS HOME ARE CONSTRUCTED OF CINDER CONCRETE BUILDING BLOCKS.





SIZES:

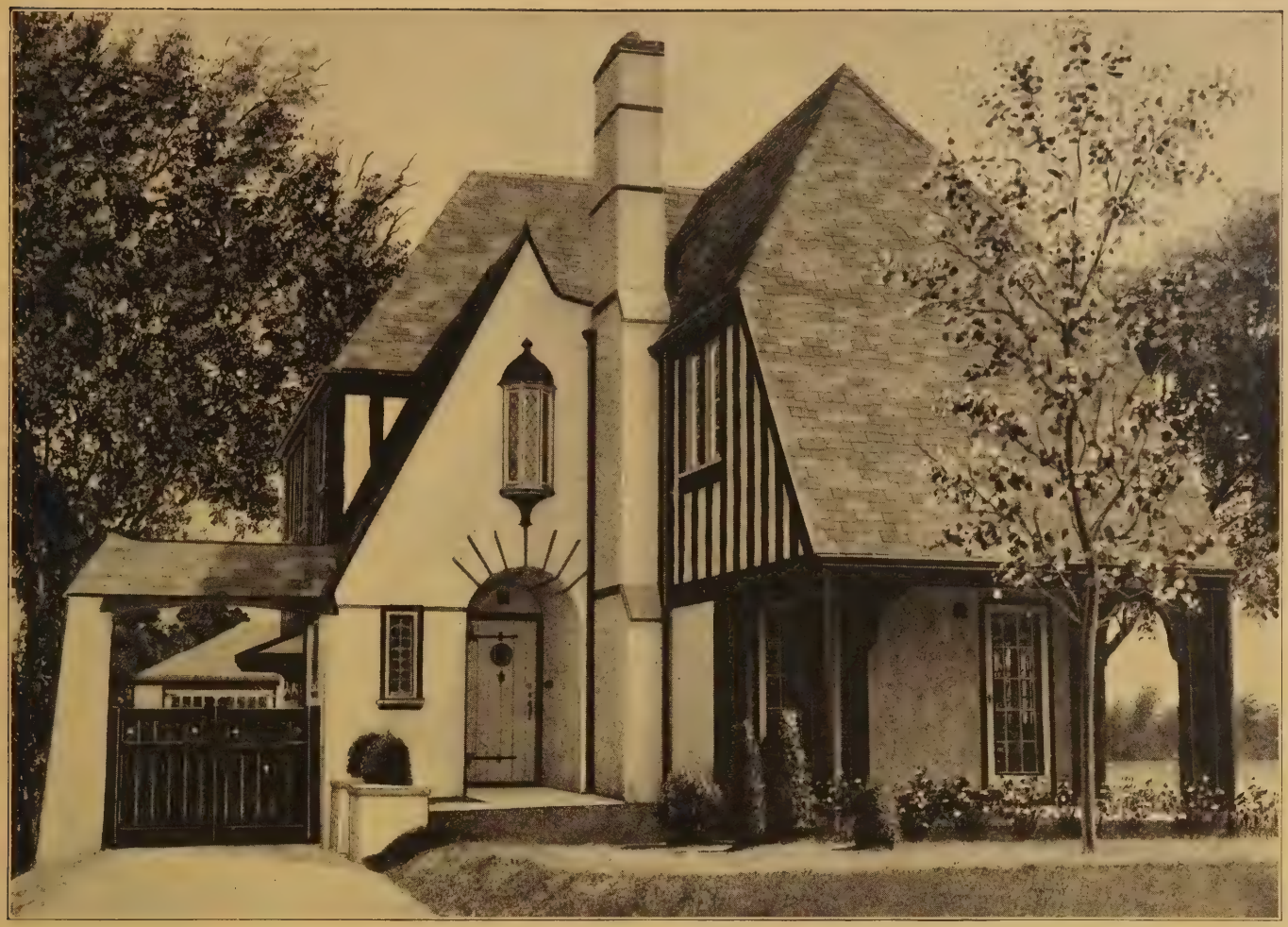
Extreme Width	45' 6"
Extreme Depth	29' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

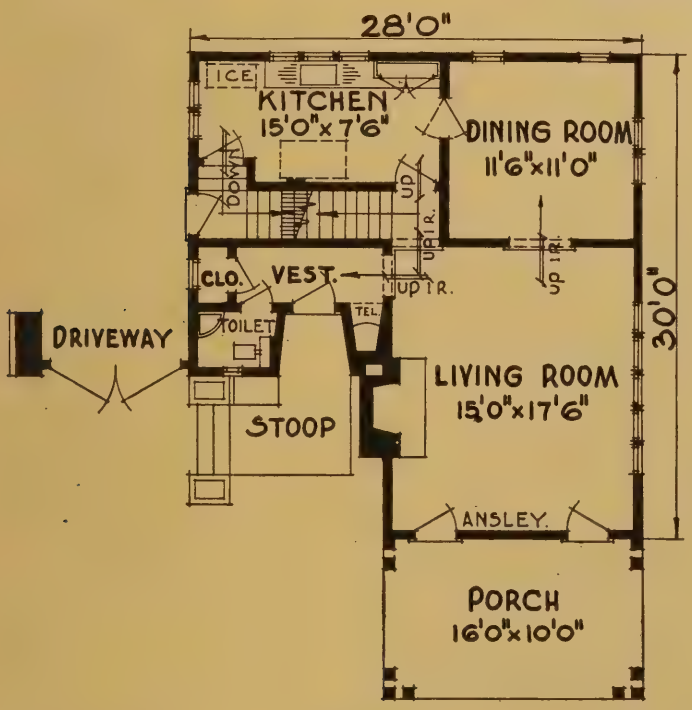
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



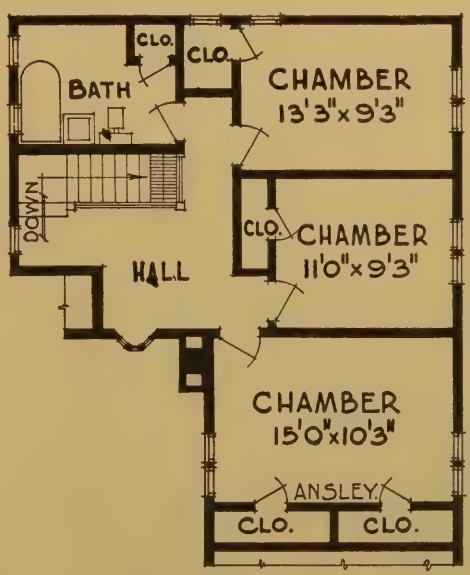
6 Rooms, Bath and Toilet

"The ANSLEY"

28 Ft. Wide x 30 Ft. Deep



A VERY pleasing example of the old English type. The exterior is constructed of rustic half timbers and stucco on metal lath. The recessed entrance and oriel window above are very impressive. The interior is very well arranged with such features as a toilet on the first floor and stairway to second floor accessable from living room and kitchen.



SIZES:

Extreme Width	39' 6"
Extreme Depth	40' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

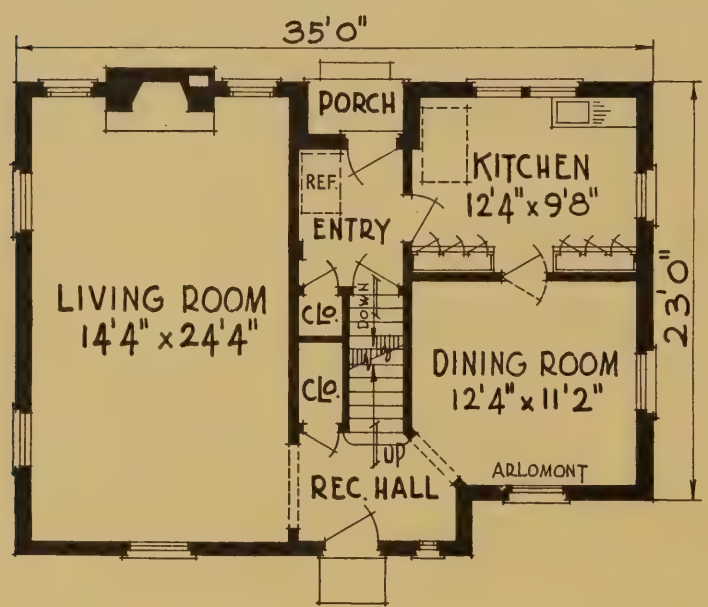
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



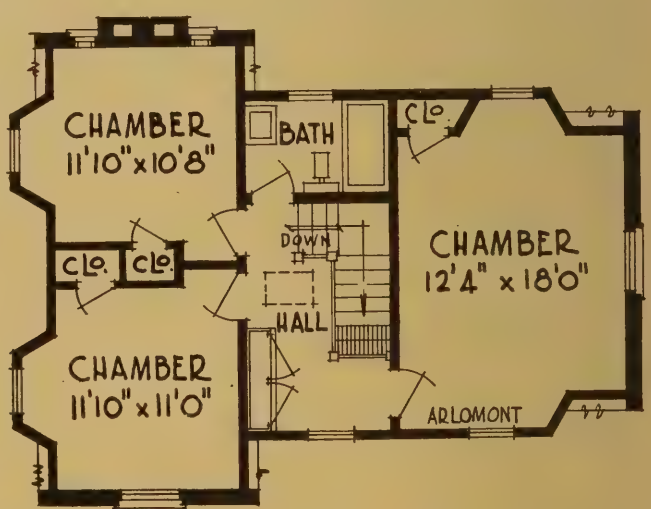
6 Rooms and Bath

"The ARLOMONT"

35 Ft. Wide x 26 Ft. Deep



THE "Arlomont" is of tile construction with exterior stucco finish. The built-in cabinets in kitchen and upstairs hall are very convenient. Large chambers with many nooks and projecting windows contain numerous possibilities for attractive furnishing.



SIZES:

Extreme Width	39' 0"
Extreme Depth	31' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

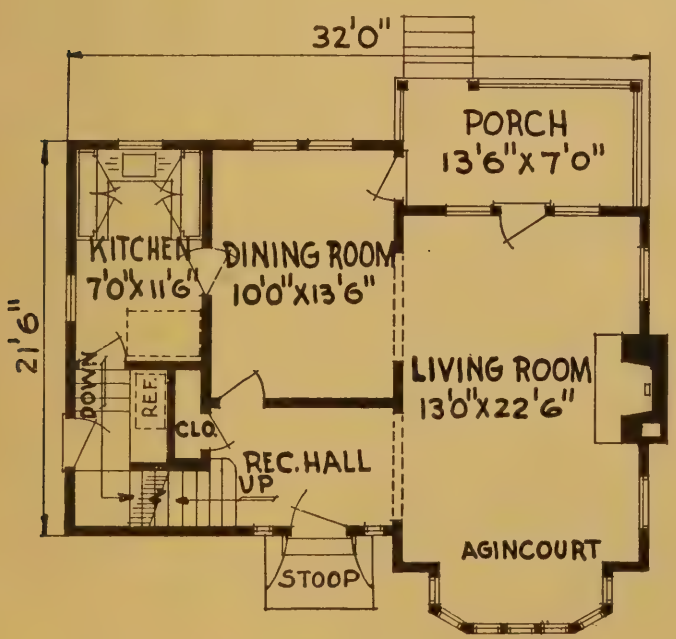


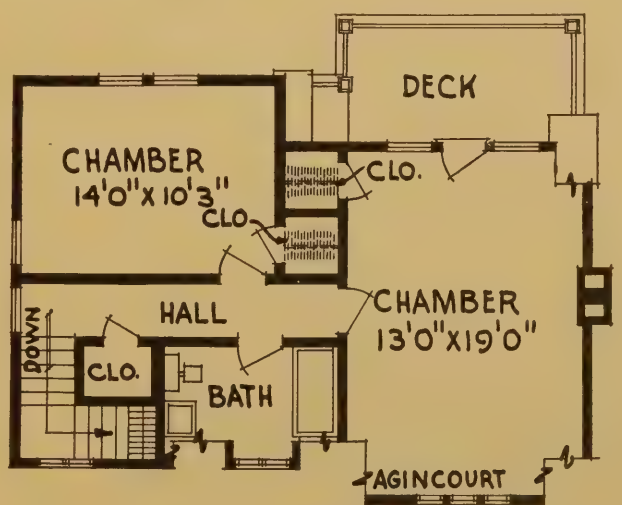
5 Rooms and Bath

"The AGINCOURT"

32 Ft. Wide x 27 Ft. Deep

THERE is something very appealing about the "Agincourt." Perhaps it is the big bay or perhaps it is the unique entrance or the artistic chimney. At any rate it possesses undeniable charm. And the floor plan is excellent. This pleasing home is of simple frame construction with outside walls of stucco applied to metal lath.





SIZES:

Extreme Width	35' 0"
Extreme Depth	30' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

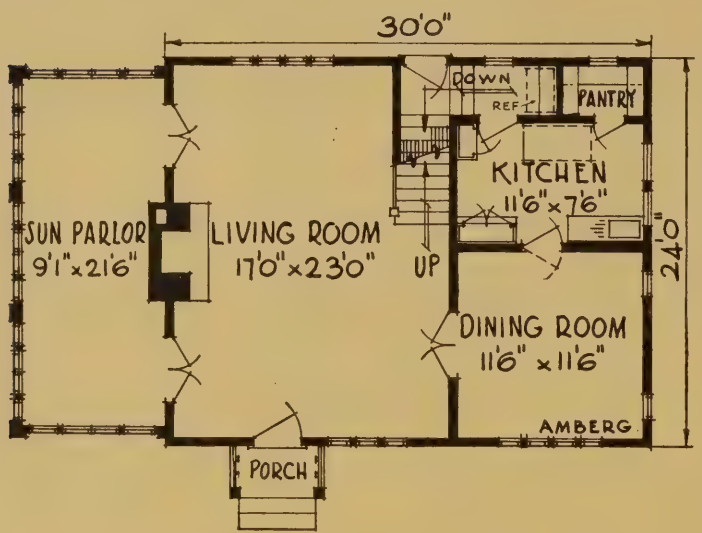
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



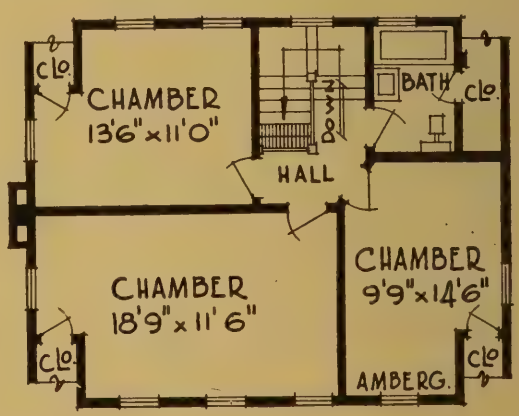
6 Rooms, Bath and Sun Parlor

"The AMBERG"

30 Ft. Wide x 24 Ft. Deep



ILLUSTRATING the popular Dutch Colonial style. A pleasing contrast is obtained by the use of stucco in first story and siding for upper story. One of the sunniest of sun parlors. Then there is a large living room, large chambers, and a fire-place. The kitchen is equipped with cabinets and a convenient pantry.



SIZES:

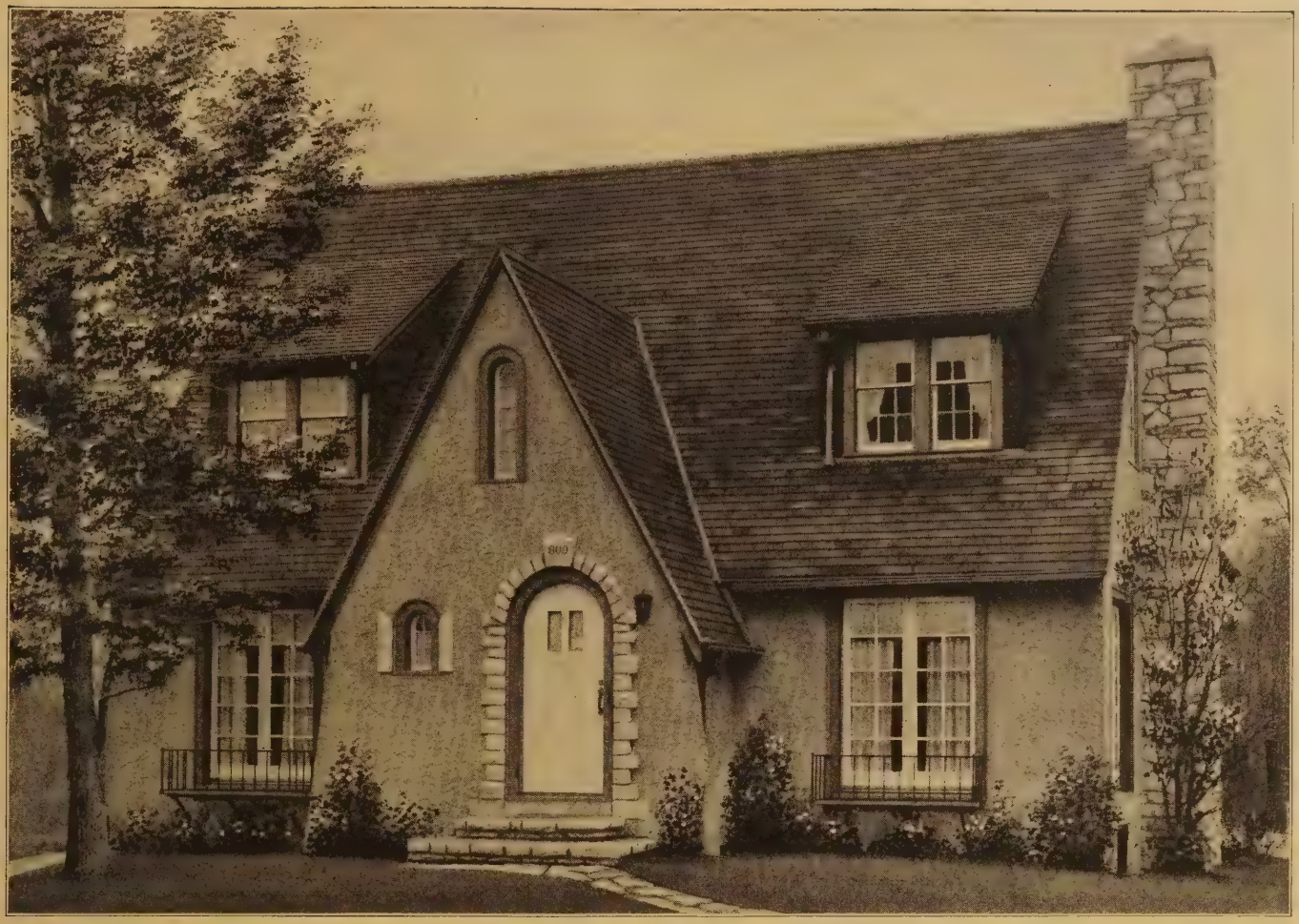
Extreme Width	41' 0"
Extreme Depth	31' 3"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

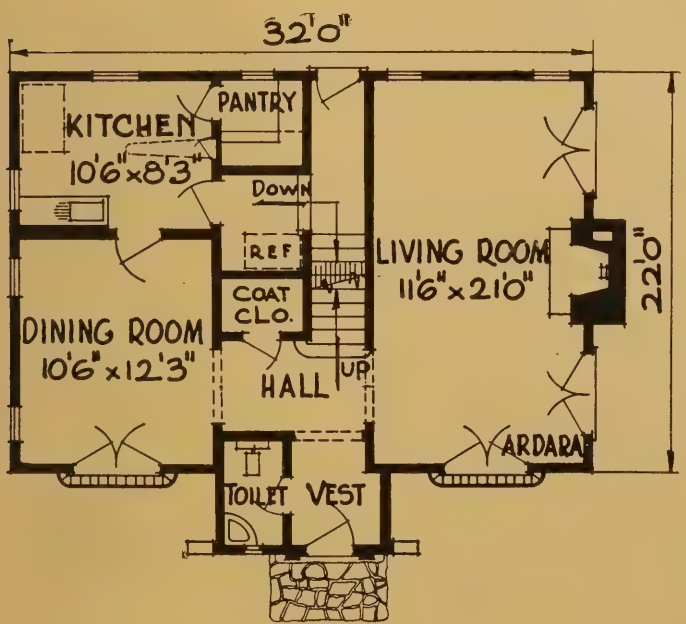
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



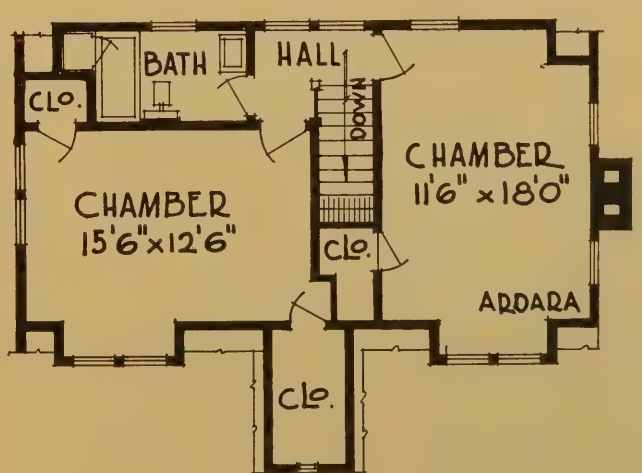
5 Rooms, Bath and Toilet

"The ARDARA"

32 Ft. Wide x 22 Ft. Deep



TASTE and dignity mark the outward appearance of the "Ardara." Stucco on metal lath trimmed in stone with a stone chimney makes an irresistible combination. French doors opening onto iron-railed balconies in the living room and dining room add to the inside as well as the outside beauty. Such features as a toilet off the vestibule and pantry show careful planning of the interior.



SIZES:

Extreme Width	34' 6"
Extreme Depth	31' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

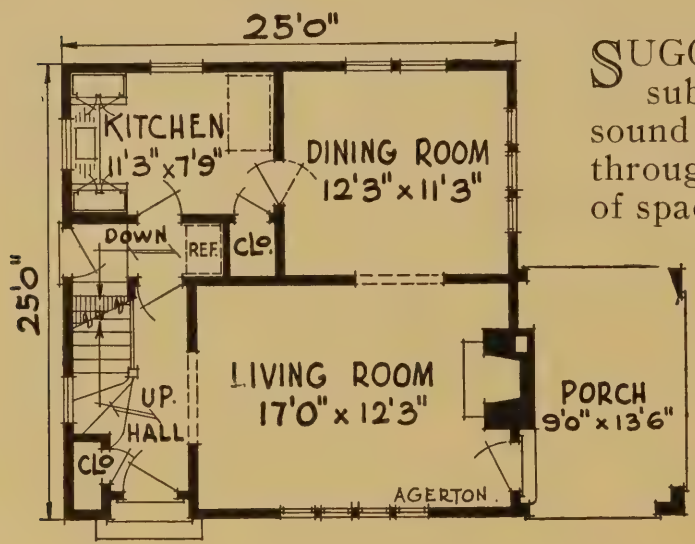
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



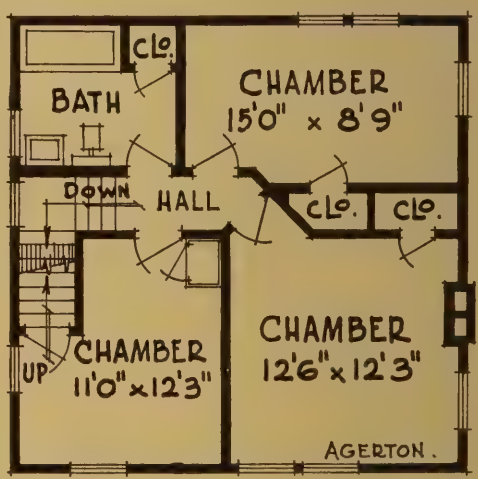
6 Rooms and Bath

"The AGERTON"

25 Ft. Wide x 25 Ft. Deep



SUGGESTIVE of the small, picturesque suburb. Stucco on metal lath makes for sound construction. Comfort is insured through the architects utilization of every inch of space. Appealing and compact.



SIZES:

Extreme Width	37′ 9″
Extreme Depth	29′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

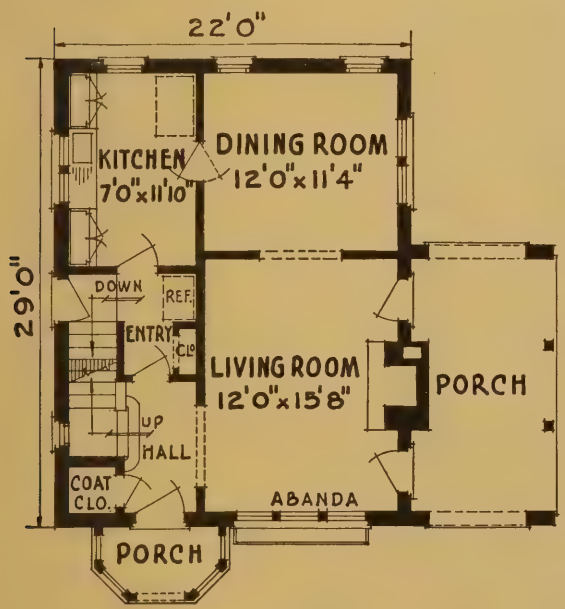
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

"The ABANDA"

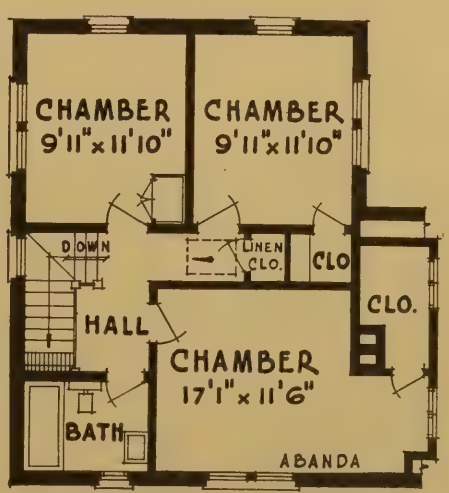
22 Ft. Wide x 29 Ft. Deep



THE eye wanders back and forth between the shady porch and the unique entrance.

The interior does not belie the charm of the outside. Large, airy rooms, and numerous handy closets make the "Abanda" most livable.

Stucco on tile for outside walls.



SIZES:

Extreme Width	34' 0"
Extreme Depth	35' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms, Bath and Toilet

"The AYRSHIRE"

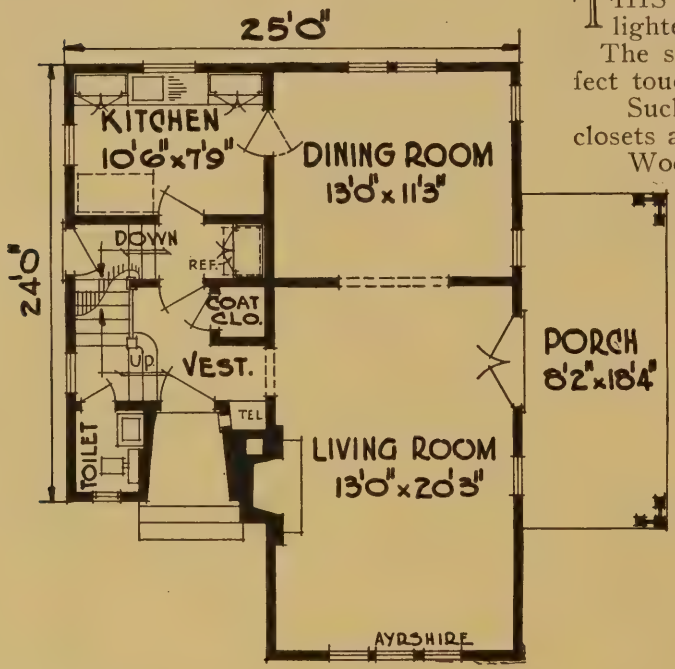
25 Ft. Wide x 33 Ft. Deep

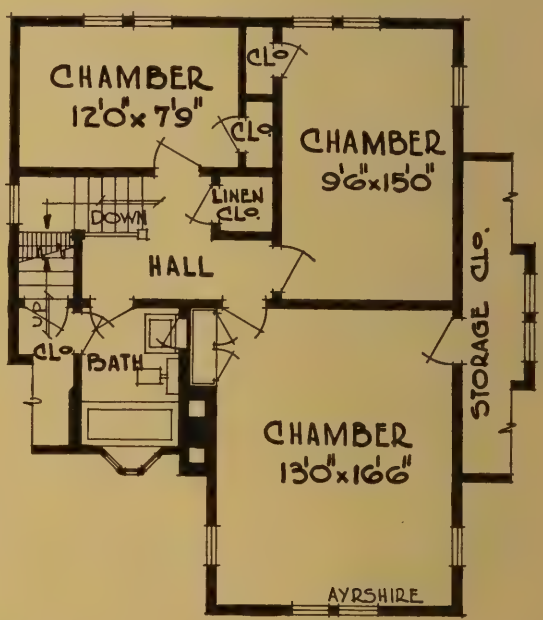
THIS attractive home is really small yet it offers large well lighted rooms.

The small oriel window over the entrance gives it a perfect touch.

Such conveniences as a down stairs toilet and spacious closets are found in the "AYRSHIRE."

Wood lath backs up the stucco.





SIZES:

Extreme Width	34' 0"
Extreme Depth	34' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications and Two (2) Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

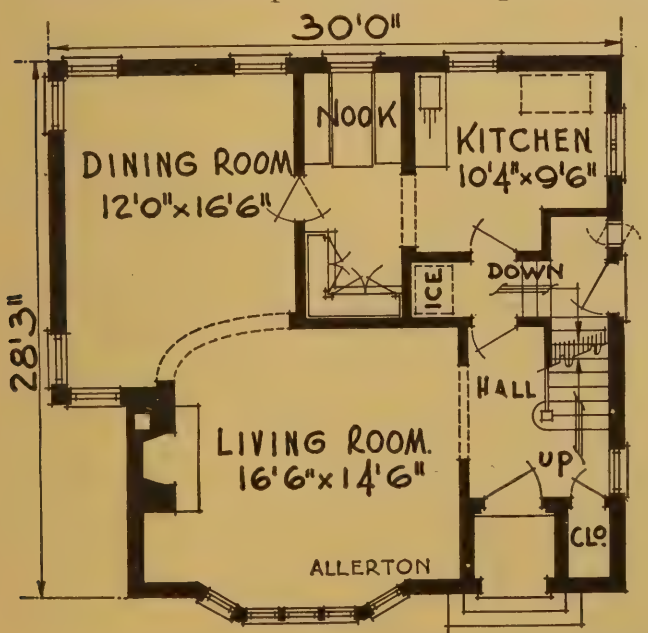


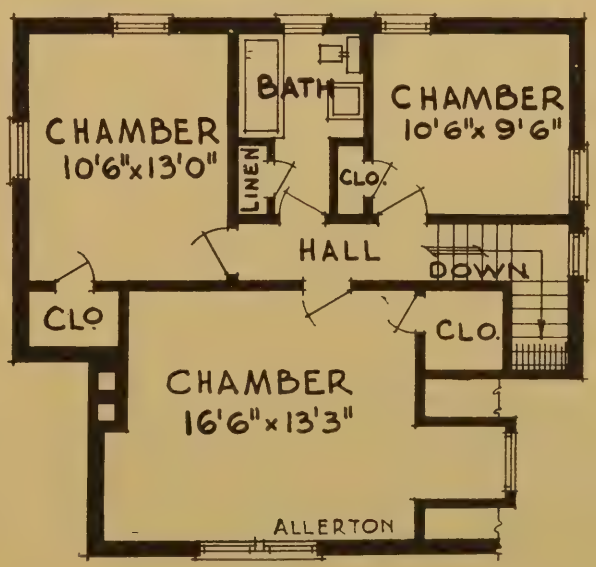
6 Rooms, Bath and Dining Nook

"The ALLERTON"

30 Ft. Wide x 28 Ft. 3 In. Deep

AN English type home with outside walls of tile and stucco. Substantial simplicity, proportion, large well lighted rooms and convenient household arrangements are all carefully incorporated to make this perfect design. A home which blends with any landscape and suitable even to the most pretentious neighborhoods.





SIZES:

Extreme Width	27' 0"
Extreme Depth	30' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

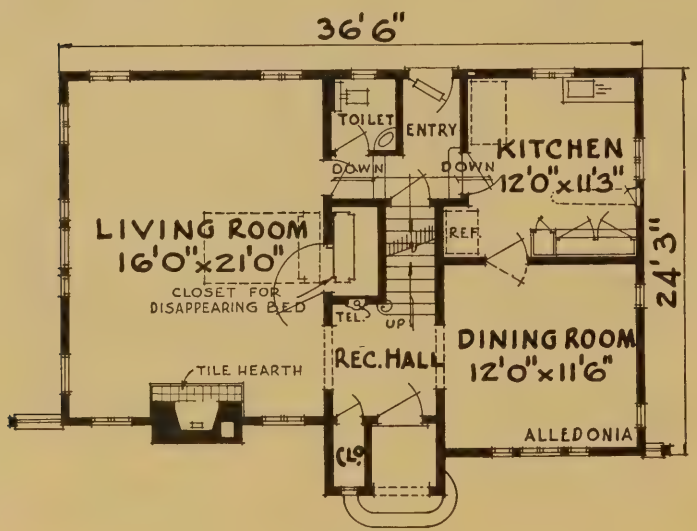


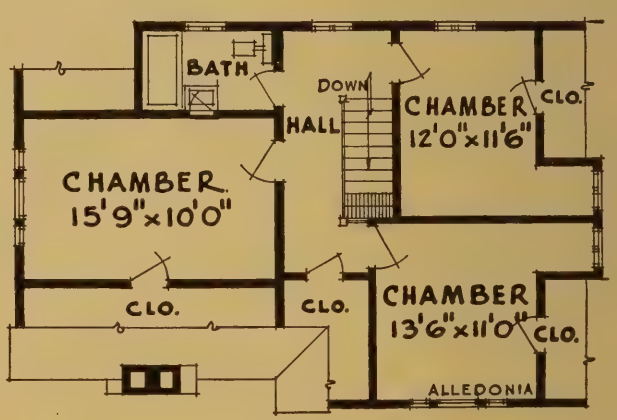
6 Rooms, Bath and Toilet

"The ALLEDONIA"

36 Ft. 6 in. Wide x 24 Ft. 3 in. Deep

AGAIN the rich beauty of stucco comes to us in the "Alledonia." It presents a front that is at once artistic and satisfying as the picture shows. Insulation is used in the outside walls giving added practical value. As for the interior—well, from the moment you enter the reception hall you are continually impressed with the pleasing arrangements for practical comfort.





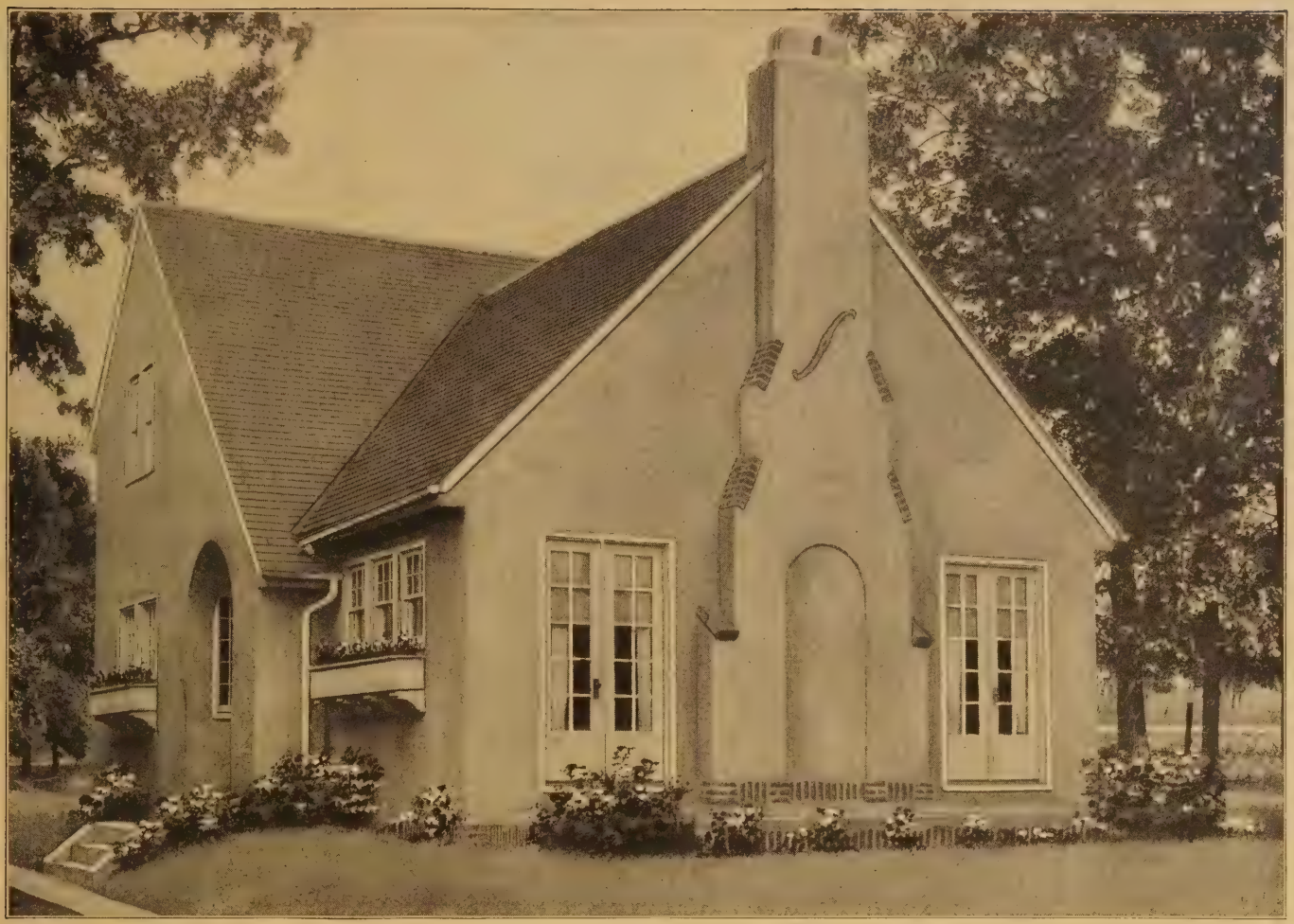
SIZES:

Extreme Width	41' 6"
Extreme Depth	29' 0".
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

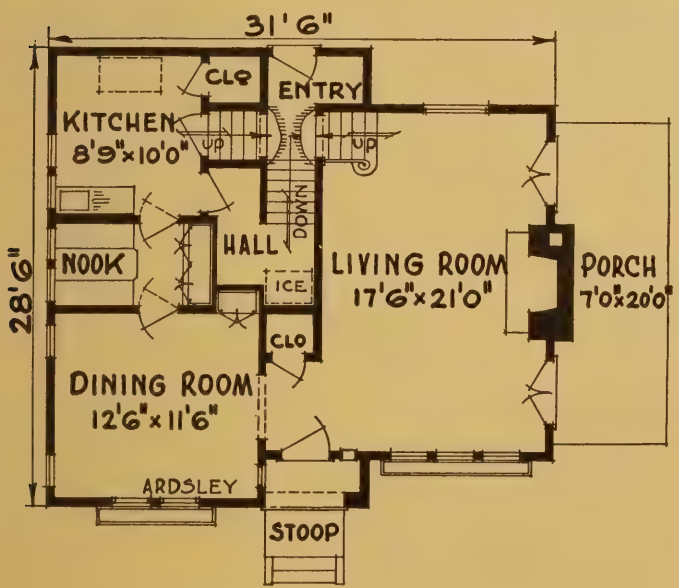
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



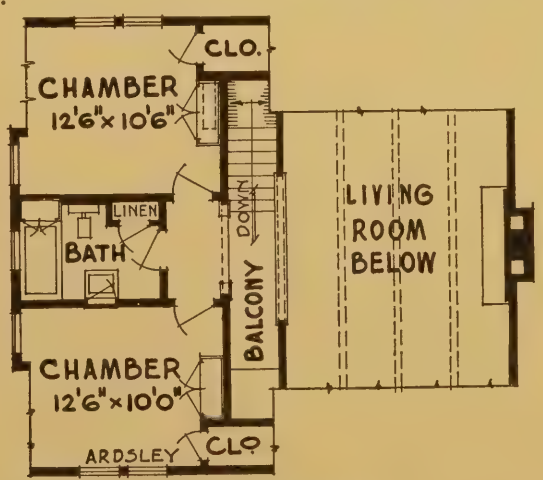
5 Rooms, Bath and Nook

"The ARDSLEY"

31 Ft. 6 In. Wide x 28 Ft. 6 In. Deep



THE "ARDSLEY" enhances all the features of advanced architecture. The living room is two stories high, with exposed beams, and an interior balcony. A secluded breakfast nook and a stairway accessable from both the living room and kitchen are added attractions. The exterior demonstrates the richness and architectural pliability of stucco. The stucco is mounted on wood lath.



SIZES:

Extreme Width	40′ 0″
Extreme Depth	35′ 0″
First Floor Ceiling	9′ 0″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

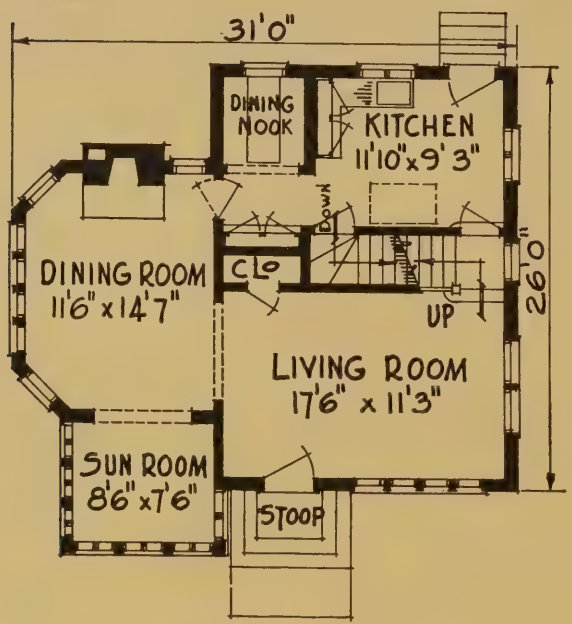
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



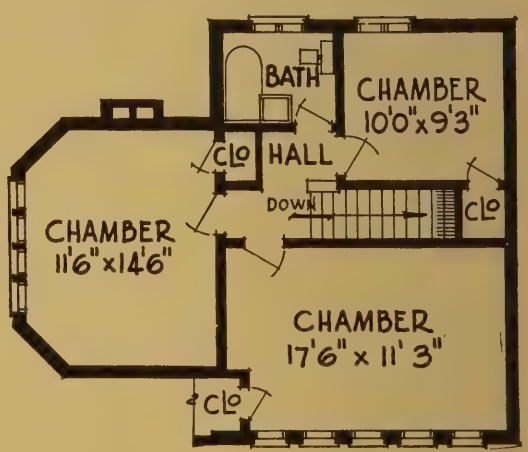
6 Rooms, Bath, Dining Nook and Sun Room

"The ANTWERP"

31 Ft. Wide x 26 Ft. Deep



LIVING in a comfortable well made home in a pleasant location is a blessing which all of us appreciate. The Antwerp with its pleasing exterior, its combination tile and stucco walls and brick trimmings will no doubt prove a blessing to many. It is modern, convenient, well lighted and entirely substantial in all respects. The stairway leads from kitchen as well as from the living room.



SIZES:

Extreme Width	35' 0"
Extreme Depth	36' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

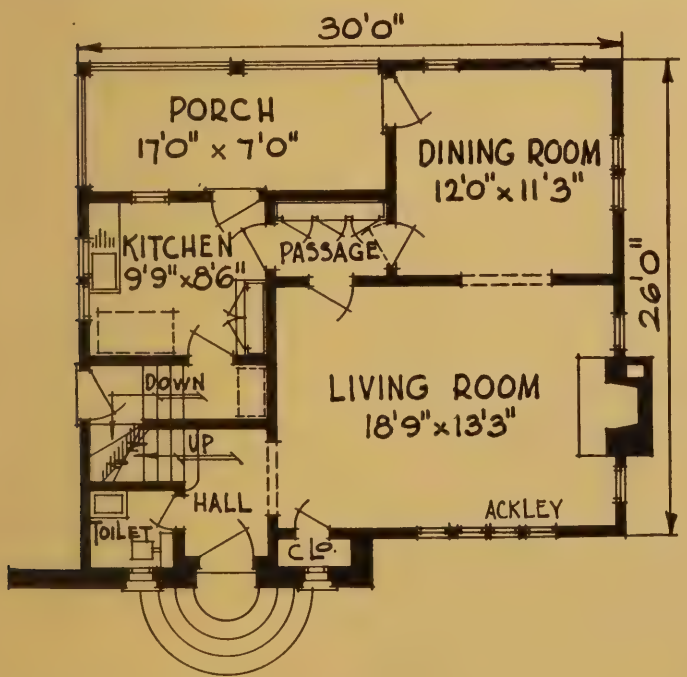
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



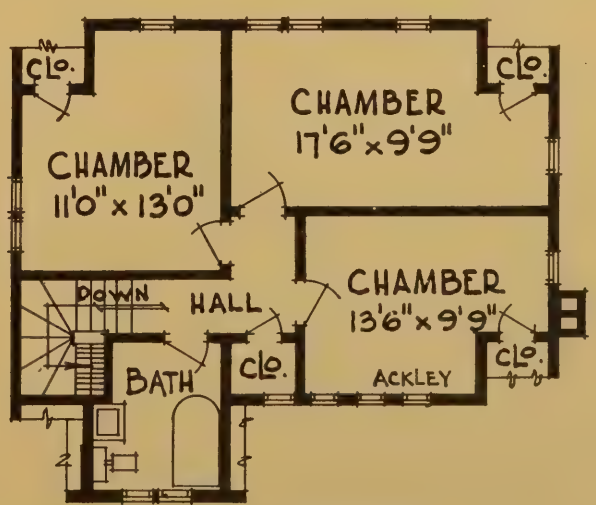
6 Rooms, Bath and Toilet

"The ACKLEY"

30 Ft. Wide x 26 Ft. Deep



AN irresistible front, culminating in the artistic brick entrance. Such features as a butler's pantry and a toilet off the hall makes the downstairs arrangement perfect. The spaciousness of the chambers should be noticed.



SIZES:

Extreme Width	35' 6"
Extreme Depth	35' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

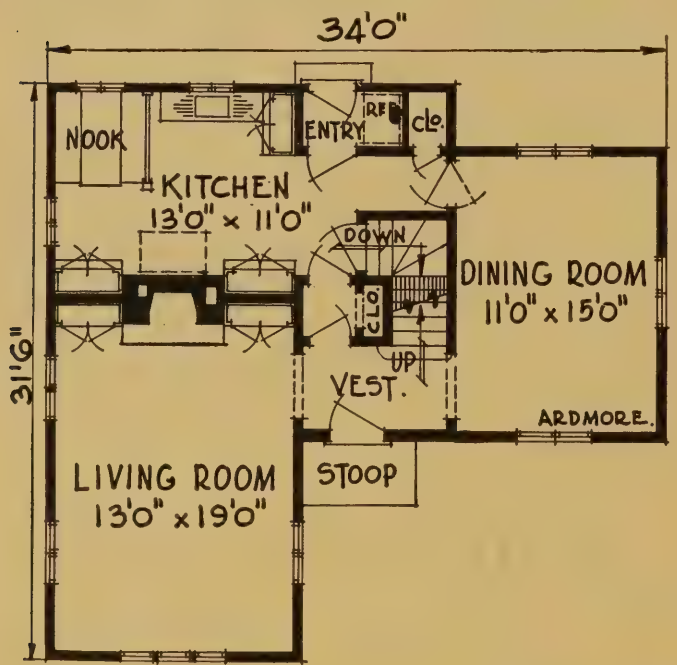


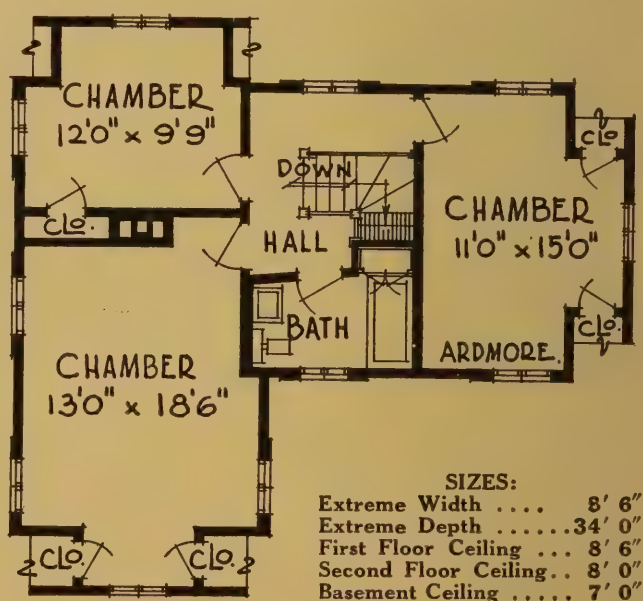
6 Rooms, Bath and Nook

"The ARDMORE"

34 Ft. Wide x 31 Ft. 6 In. Deep

A STUCCO home of the English type that would add beauty to the choicest suburbs. Metal lath backs up the stucco. The room arrangement is superb, the dining room and living room being two distinct units. Each has windows on three sides permitting plenty of light and ventilation.





SIZES:

Extreme Width	8' 6"
Extreme Depth .....34'	0"
First Floor Ceiling ...	8' 6"
Second Floor Ceiling..	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design.....
One (1) Classified Guide (16 Pages) for listing all Material Items.....
One (1) Set of Specifications and Two (2) Blank Contract Forms..... **$20.00**

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

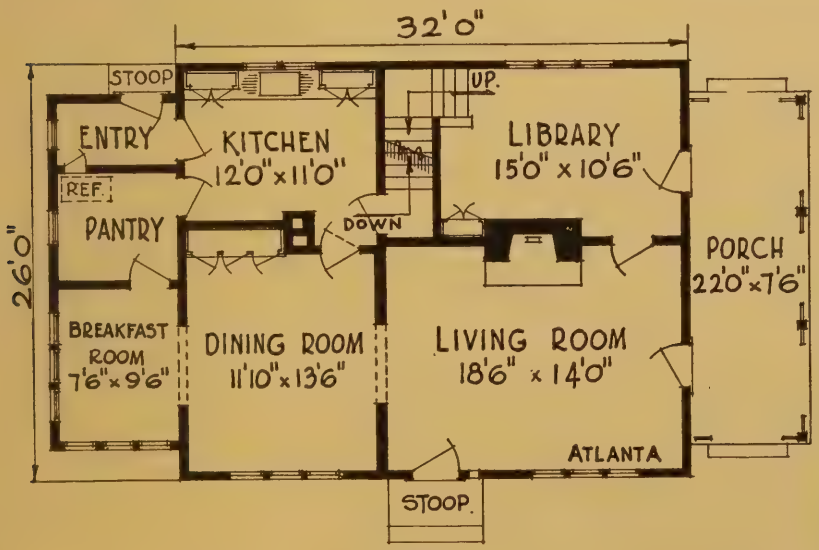


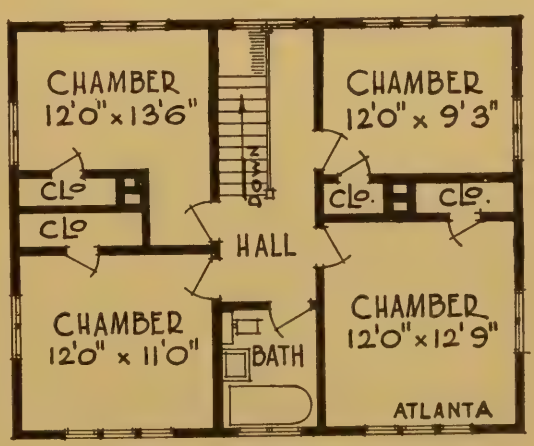
7 Rooms, Bath, Library and Breakfast Room

"The ATLANTA"

32 Ft. Wide x 26 Ft. Deep

A HOME for the larger family. By balancing the porches and the chimneys, the architect has obtained a stately dignity. Then there are seven rooms not counting the library and breakfast room.





SIZES:

Extreme Width	49' 6"
Extreme Depth	31' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items .....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms** .....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

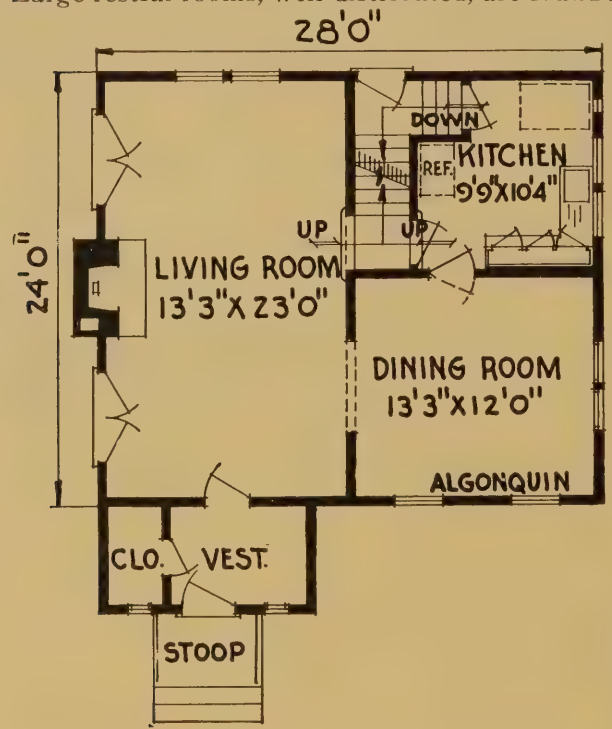


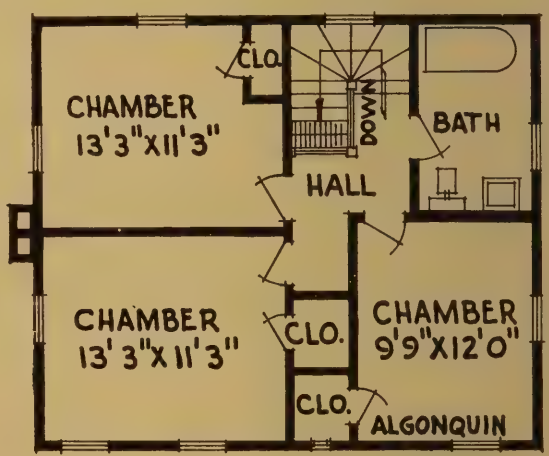
6 Rooms and Bath

"The ALGONQUIN"

28 Ft. Wide x 24 Ft. Deep

STUCCO on metal lath is an artistic as well as practical building medium as is demonstrated here. The iron railings and gratings and the tile roof are the finishing touches to this attractive exterior. Large restful rooms, well distributed, are found inside.





SIZES:

Extreme Width	30' 0"
Extreme Depth	37' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

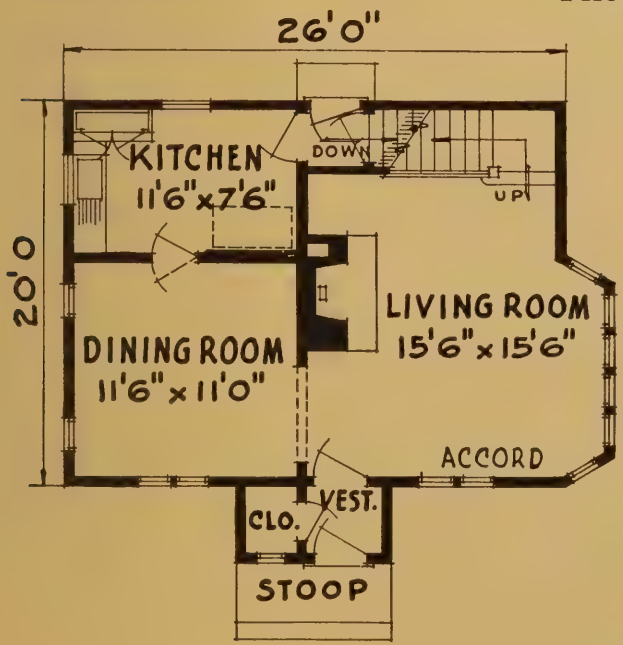
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



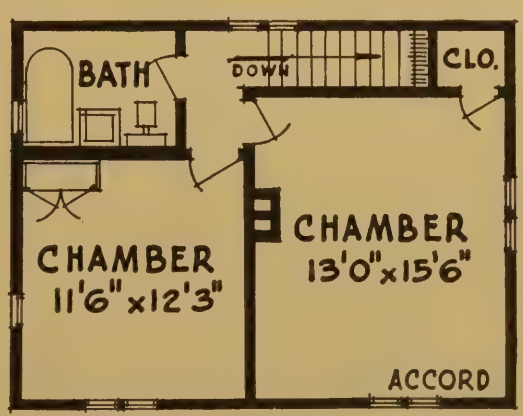
5 Rooms and Bath

"The ACCORD"

26 Ft. Wide x 20 Ft. Deep



CATCHING the eye with its outside charm, the "Accord" is ideal for the discriminating family. A large roomy bay, a wide fireplace, and an open stairway give the living room varied interest. Two large chambers and a bath constitute the upstairs.



SIZES:

Extreme Width	31′ 6″
Extreme Depth	30′ 0″
First Floor Ceiling	9′ 0″
Second Floor Ceiling	8′ 6″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) Blank **Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



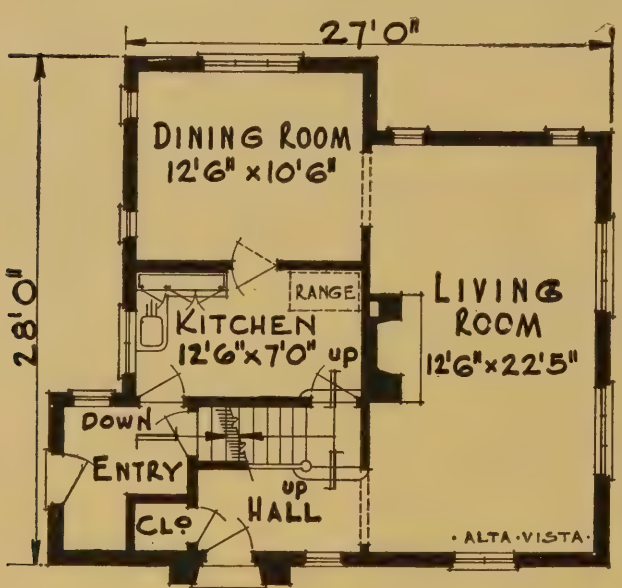
5 Rooms and Bath

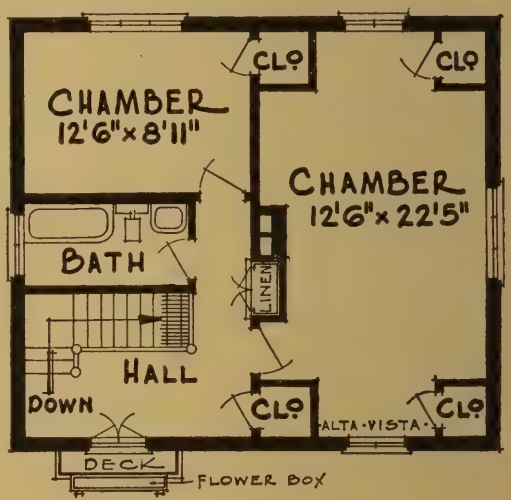
"The ALTA VISTA"

27 Ft. Wide x 24 Ft. Deep

BEAUTY in design is usually created thru simplicity. Here we have a beautiful building that has the power to attract attention and admiration.

The Alta Vista with its simple, yet charming exterior, and economically arranged interior cannot help but attract the home builder. It is of up-to-date construction, with outside walls of stucco on tile, and steel casement sash are used.





SIZES:

Extreme Width	32'0"
Extreme Depth	31'0"
First Floor Ceiling	8'6"
Second Floor Ceiling	8'0"
Basement Ceiling	7'0"

One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....
Two (2) Complete Sets **Blue-Print Working Plans** for above Design.....
$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

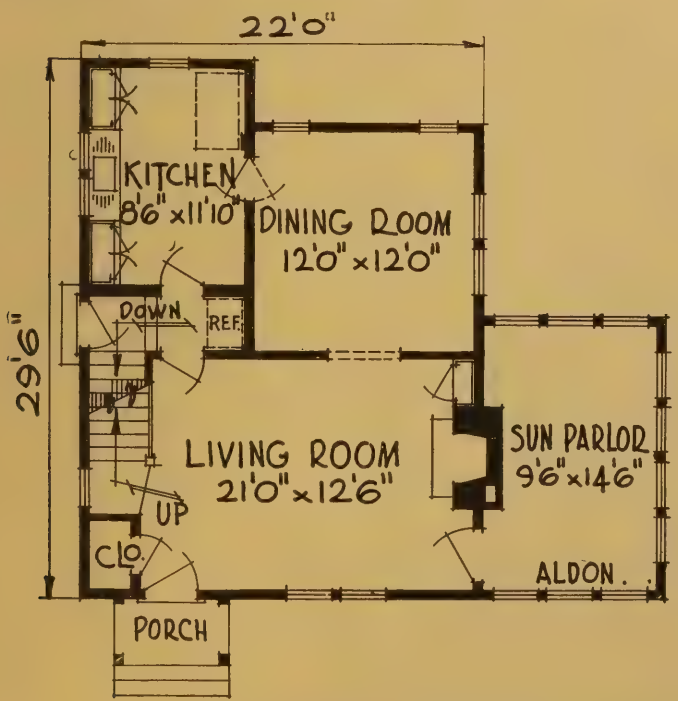


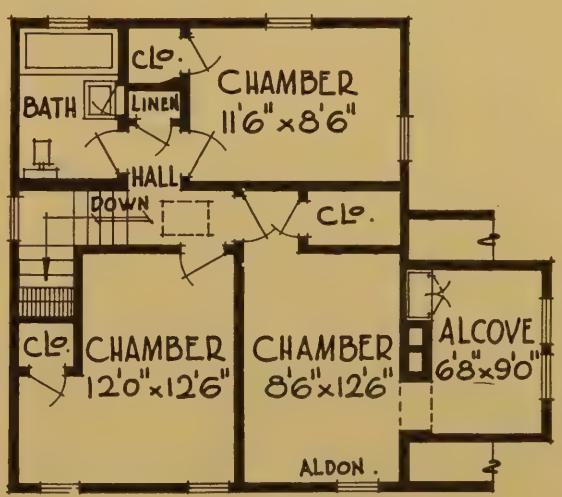
6 Rooms, Bath, Alcove and Sun Parlor

"The ALDON"

32 Ft. Wide x 26 Ft. Deep

ONE of the simpler homes in the English style. A tasty handling of the windows and outside wood trim, separates it from the commonplace. A door to the well lighted sun-parlor opens invitingly off the spacious living room. A large dressing alcove upstairs is one of the added comforts.





SIZES:

Extreme Width	34' 0"
Extreme Depth	36' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans. etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.

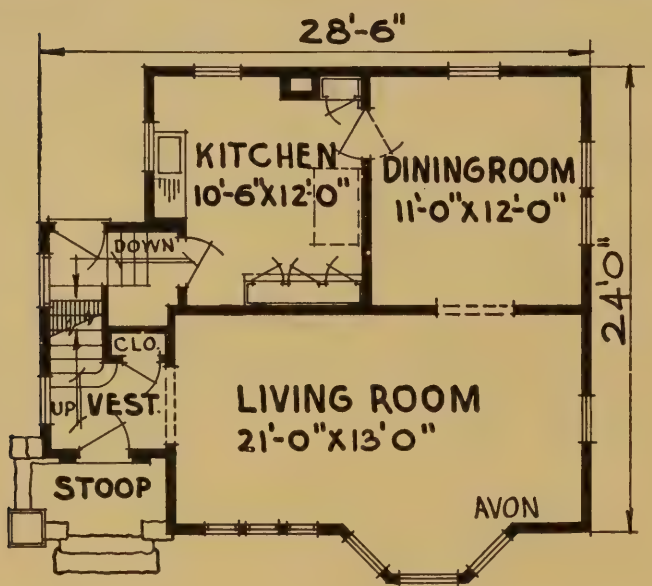
Chicago.—Rochester.—Detroit.—New York.



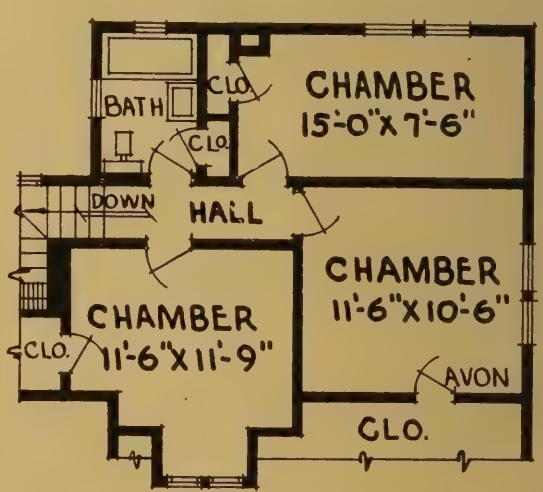
6 Rooms and Bath

"The AVON"

28 Ft. 6 In. Wide x 24 Ft. Deep



THE particular charm of the "Avon" lies in the rough stone entrance against the stucco background. The big bay window makes the living room a room of distinction. Odd sized chambers complete the originality of the "Avon." Stucco on metal lath.



SIZES:

Extreme Width	31' 0"
Extreme Depth	28' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

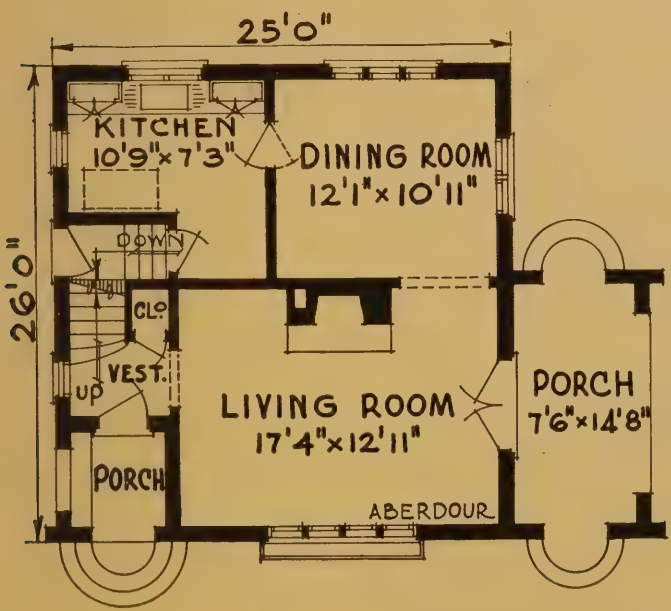
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

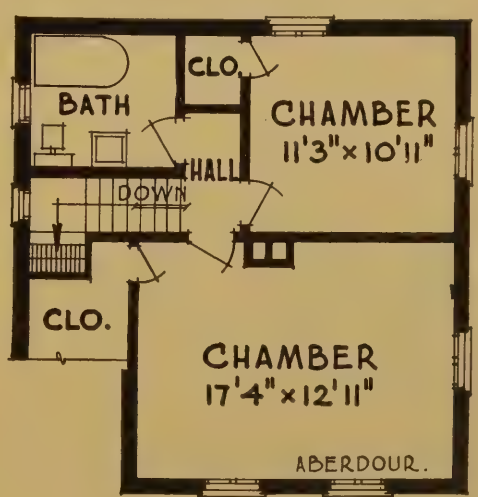
"The ABERDOUR"

25 Ft. Wide x 26 Ft. Deep



THE charm of stucco is revealed in the "Aberdour." The arches of the entrance and porch balance perfectly.

Tastily arranged rooms that will be a constant source of joy to the housekeeper. The outside stucco and inside plaster is on 8" tile.



SIZES:

Extreme Width	34' 6"
Extreme Depth	30' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

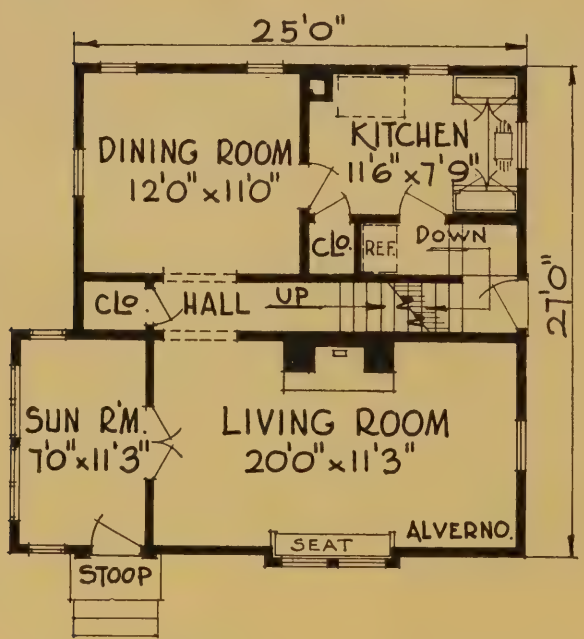
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



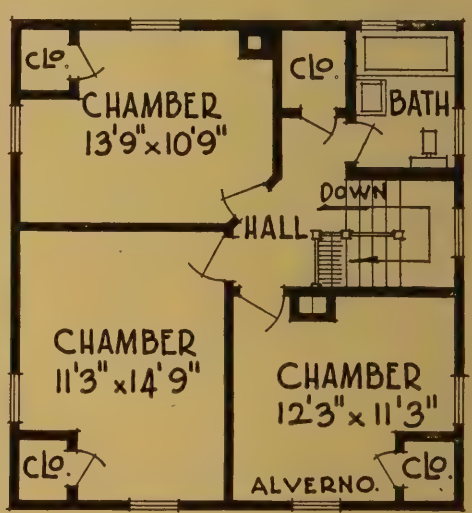
6 Rooms, Bath and Sun Parlor

"The ALVERNO"

25 Ft. Wide x 27 Ft. Deep



A HOME of moderate price, yet rich in appearance. The stucco is on wood lath. The cozy sun room opens into the expansive living room. The hall separating the living and dining rooms alone removes the "Alverno" from the ordinary.



SIZES:

Extreme Width	32' 0"
Extreme Depth	32' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

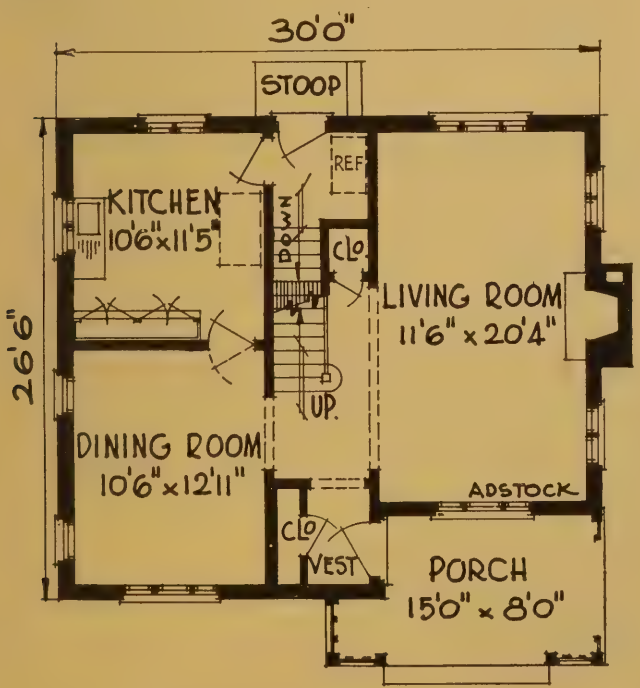


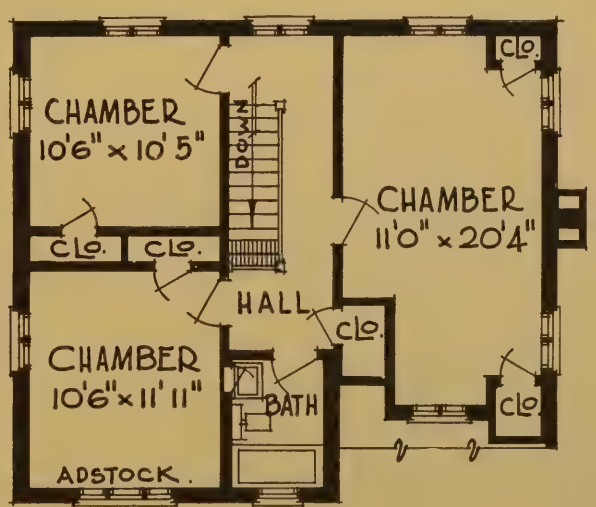
6 Rooms and Bath

"The ADSTOCK"

30 Ft. Wide x 26 Ft. 6 in. Deep

A TRIM home in stucco on tile. All the sash are steel. The open porch is charming and comfortable. Large chambers, kitchen conveniences, and expansive dining room; all cannot fail to appeal to the housewife.





SIZES:

Extreme Width	33' 3"
Extreme Depth	35' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design $20.00
One (1) Classified Guide (16 Pages) for listing all Material Items .....
One (1) Set of Specifications and Two (2) Blank Contract Forms .....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



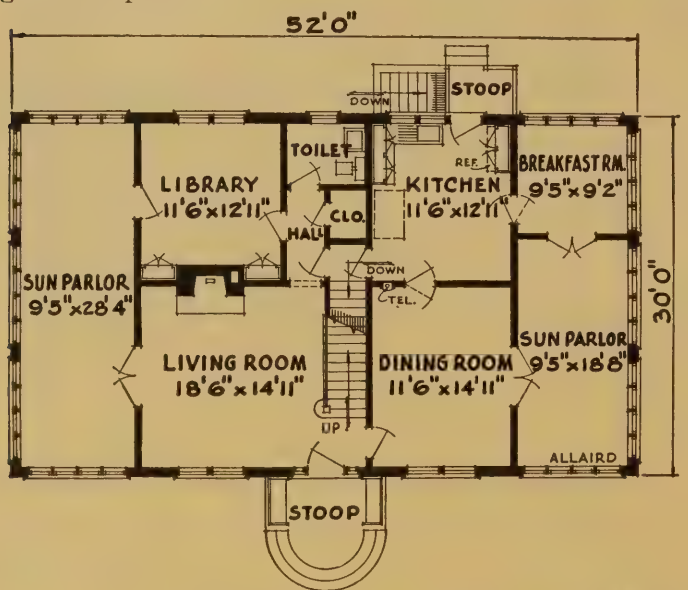
7 Rooms, Bath, Toilet, Breakfast Room and Two Sun Parlors

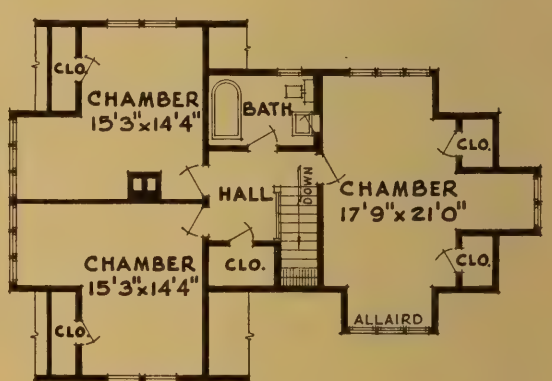
"The ALLAIRD"

52 Ft. Wide x 30 Ft. Deep

THE "Allaird" is a beautiful home to look at. You seem to never tire of gazing at its trim lines and attractive details. Inside you find the same satisfaction in the shape and arrangement of rooms. And it is a home you will never tire of living in. The enormous number of windows and sash admit the maximum amount of sunlight, making every room like a glazed-in porch.

THE FIRST STORY WALLS OF THIS HOME ARE SUBSTANTIALLY CONSTRUCTED OF CINDER CONCRETE BUILDING BLOCKS. DORMERS AND GABLES ARE COVERED WITH STAINED SHINGLES.





SIZES:

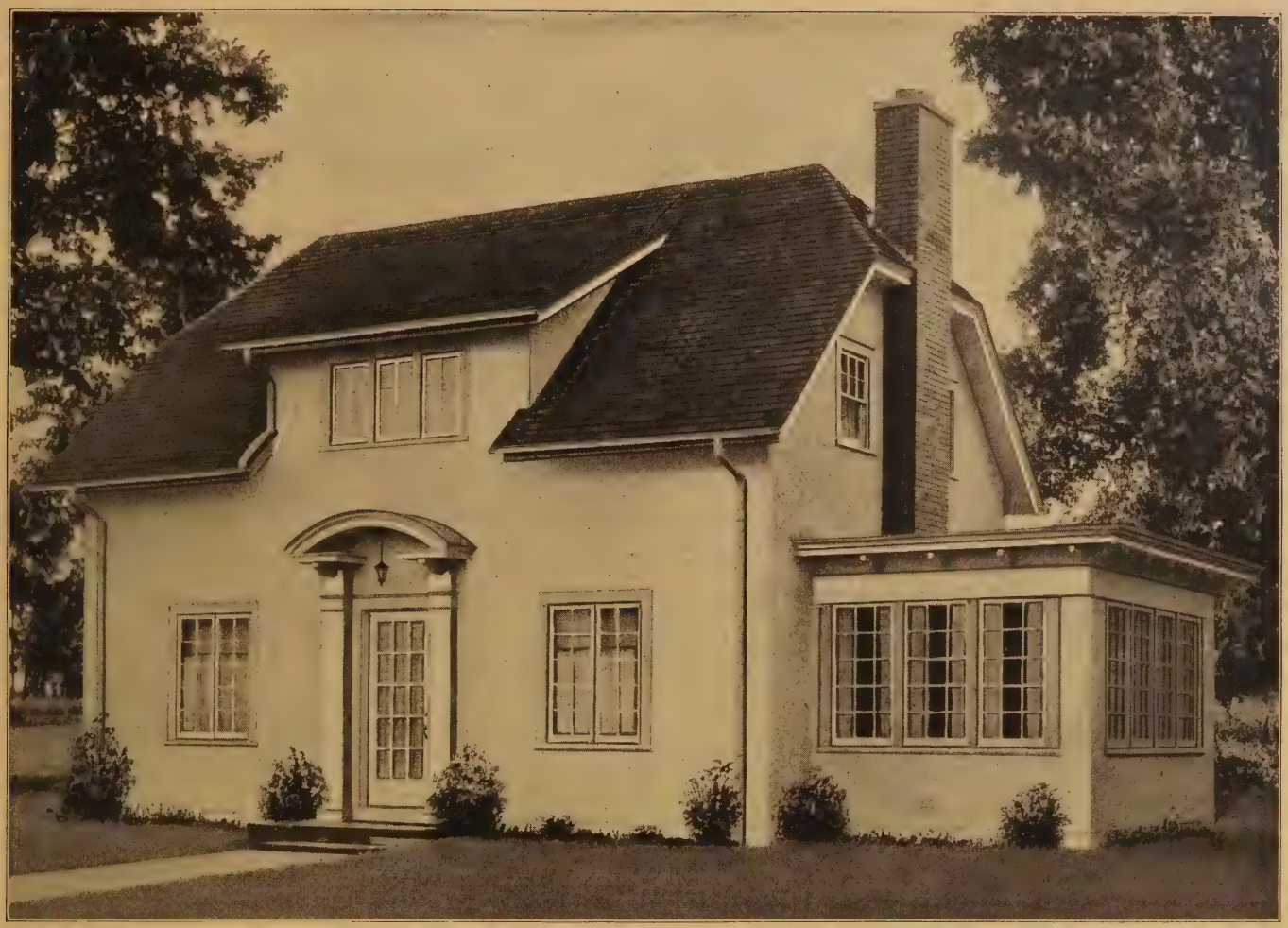
Extreme Width	54' 6"
Extreme Depth	45' 6"
First Floor Ceiling	8' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

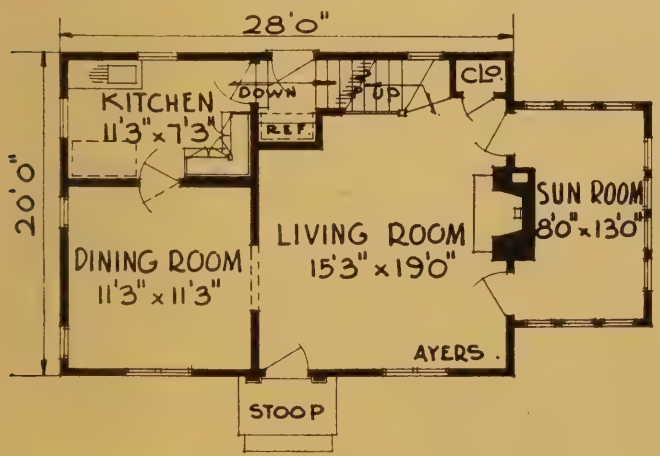


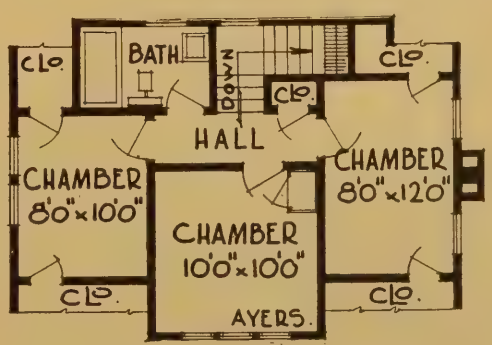
6 Rooms, Bath and Sun Room

"The AYERS"

28 Ft. Wide x 20 Ft. Deep

A WELL proportioned home that cannot fail to attract attention. The front entrance and sun room give it a very attractive appearance. The large living room with fire place, the convenient kitchen and chambers make a well balanced interior for the medium sized family.





SIZES:

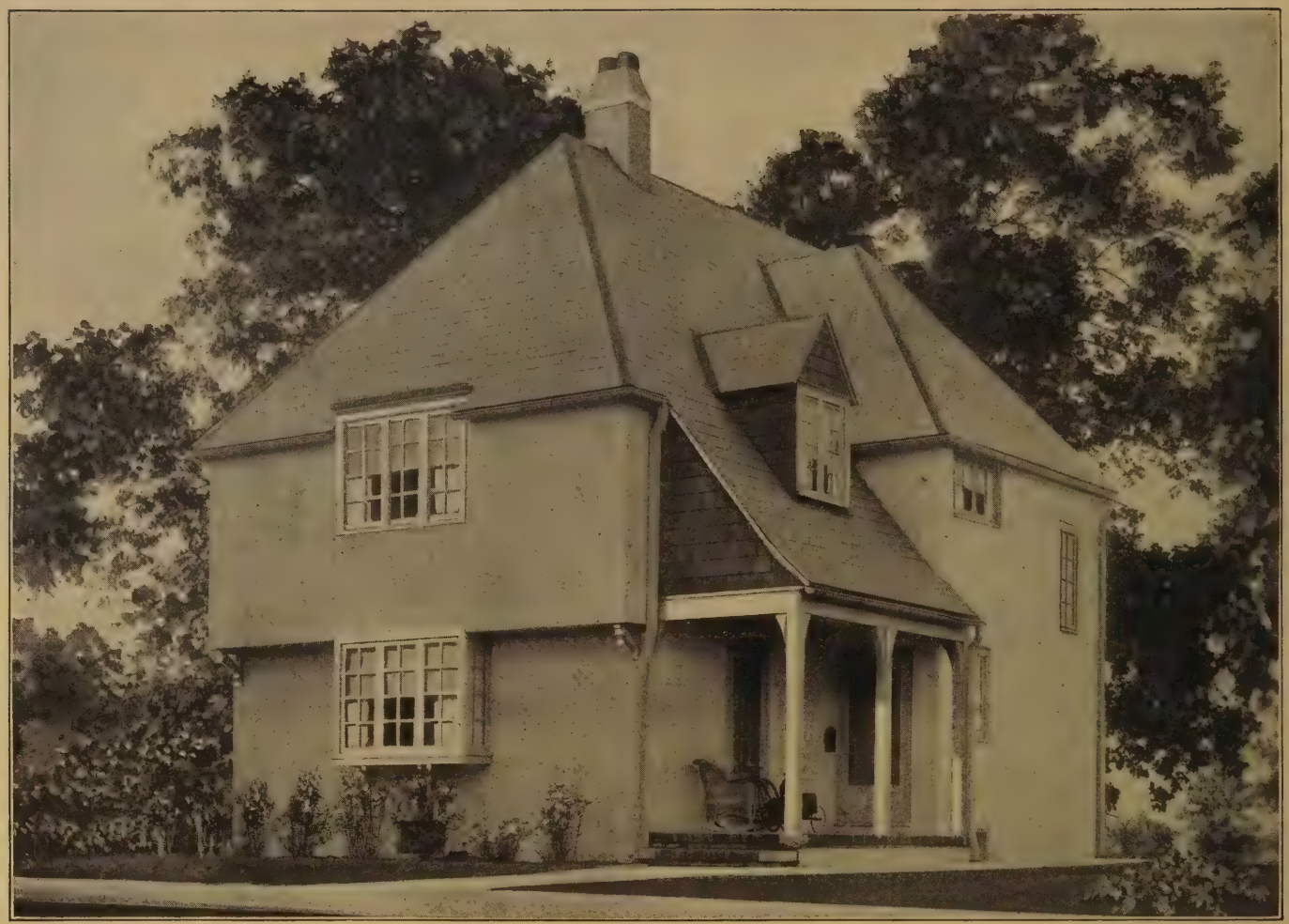
Extreme Width	39' 9"
Extreme Depth	26' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

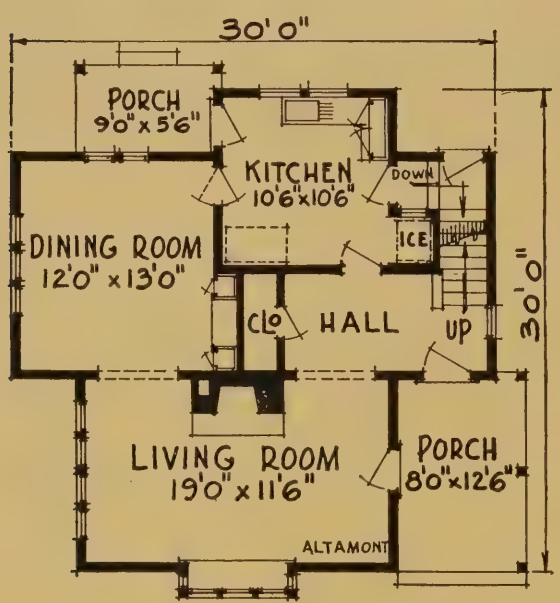
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



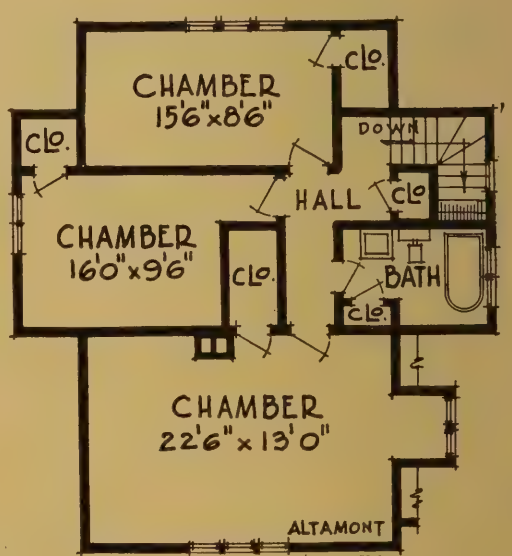
6 Rooms and Bath

"The ALTAMONT"

30 Ft. Wide x 30 Ft. Deep



THE Altamont is an all frame dwelling substantially designed according to American ideas of convenience and comfort. The old English type was used as a model for designing the exterior. The outside walls are covered with metal lath and stucco. It is a small comfortable home and worthy of consideration.



SIZES:

Extreme Width	33' 0"
Extreme Depth	34' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....
Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... **$20.00**

Secure above plans, etc. from your local Lumber or Building Material Dealer.

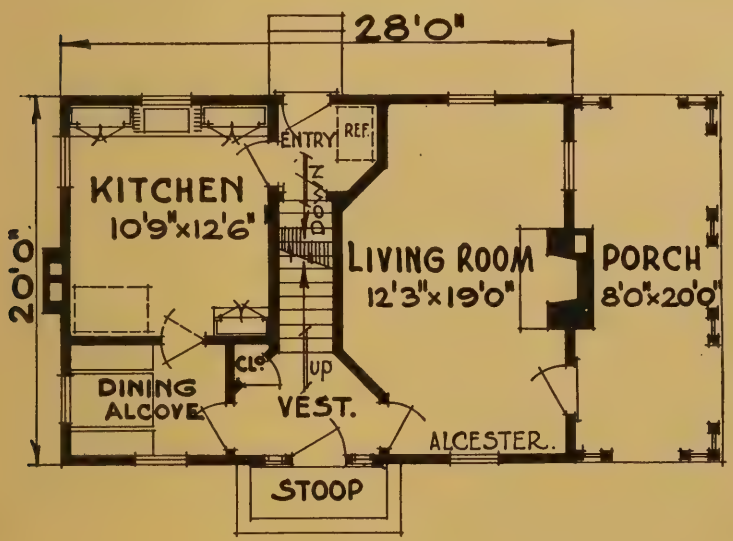
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



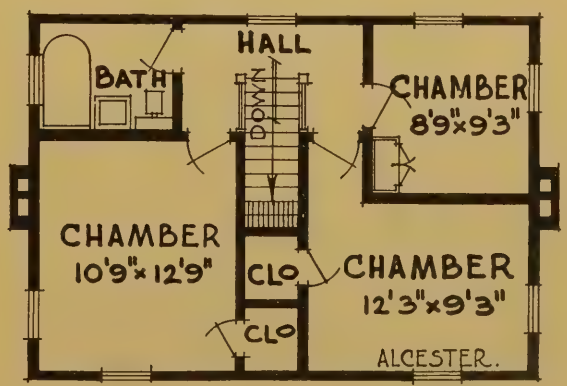
5 Rooms, Bath and Dining Alcove

"The ALCESTER"

28 Ft. Wide x 20 Ft. Deep



THE outside walls are of frame construction, covered with metal lath and stucco. A convenient home of moderate cost, with all the modern structural advantages. The large porch will be a continuous source of comfort. The shutters and front entrance add to the beauty of this well proportioned home.



SIZES:

Extreme Width	38′0″
Extreme Depth	28′0″
First Floor Ceiling	9′0″
Second Floor Ceiling	8′4″
Basement Ceiling	7′0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

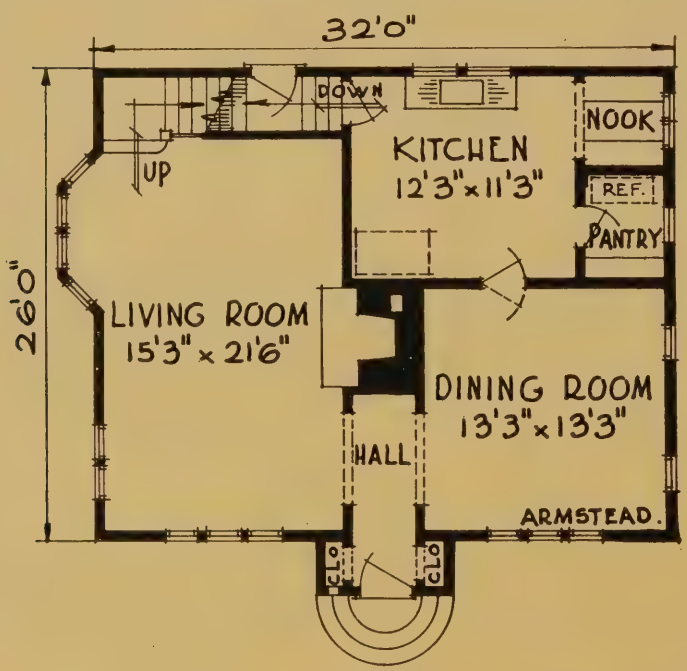


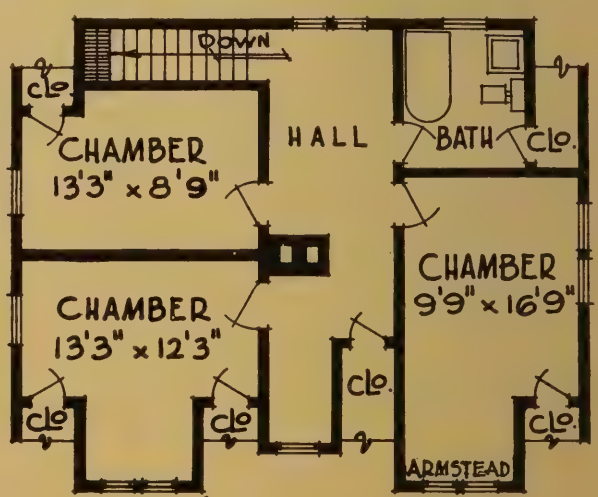
6 Rooms, Bath and Dining Nook

"The ARMSTEAD"

32 Ft. Wide x 26 Ft. Deep

THE three front gables, and the fetching entrance gives the "Armstead" its individual appearance. Visualize the beauty of the living room with its wide bay and recessed fireplace. A large hall features the upstairs. The stucco is on wood lath.





SIZES:

Extreme Width	35' 0"
Extreme Depth	34' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

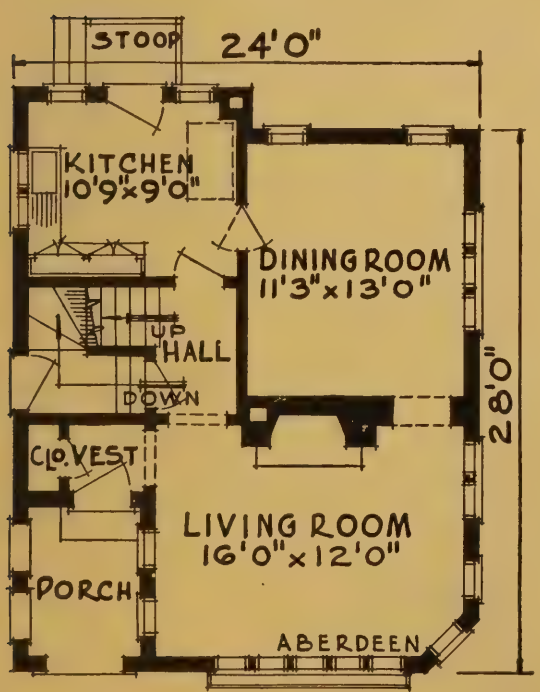
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

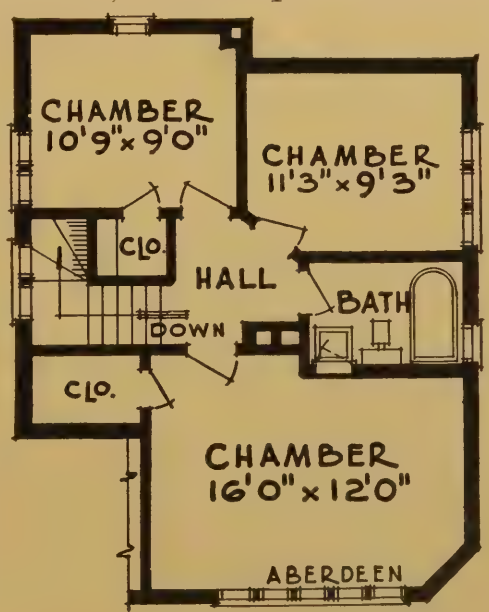
"The ABERDEEN"

24 Ft. Wide x 30 Ft. Deep



FOR those desiring a six-room substantial tile and stucco house planned so as to secure maximum results at economical costs, this will prove an ideal home.

The exterior is attractive and pleasing and the interior assures all modern conveniences so acceptable to the housewife.



SIZES:

Extreme Width	28' 0"
Extreme Depth	36' 0"
1st Floor Ceiling	8' 6"
2nd Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

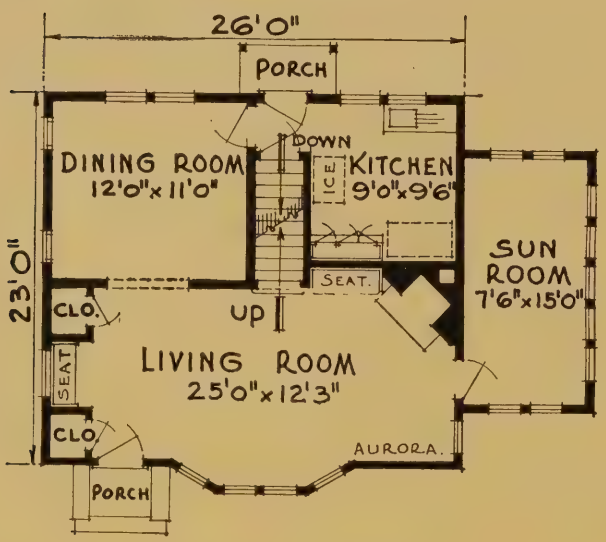
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms, Bath, Sun Room and Sleeping Porch

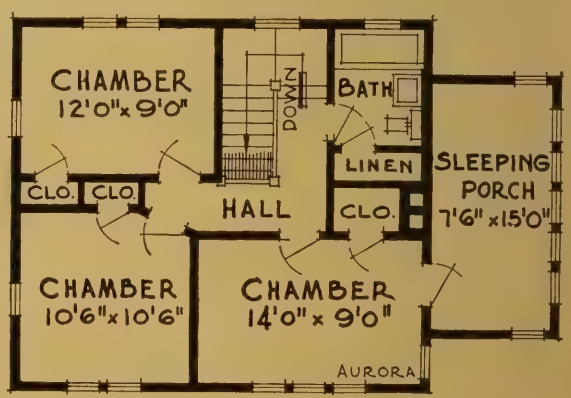
"The AURORA"

26 Ft. Wide x 23 Ft. Deep



THE Aurora is entirely of frame construction with trowelled stucco on metal lath for exterior finish. While the exterior is designed along plain simple lines, it is yet pleasing. A carefully selected color scheme for the stucco walls, cornice, etc., will make this home very effective.

Economy, efficiency, substantial construction and first-class material are all with this home. It is designed for any climate.



SIZES:

Extreme Width	37'0"
Extreme Depth	31'0"
First Floor Ceiling	8'8"
Second Floor Ceiling	8'6"
Basement Ceiling	7'0"

Two (2) Complete Sets Blue-Print Working Plans for above Design $20.00
One (1) Classified Guide (16 Pages) for listing all Material Items .....
One (1) Set of Specifications and Two (2) Blank Contract Forms .....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

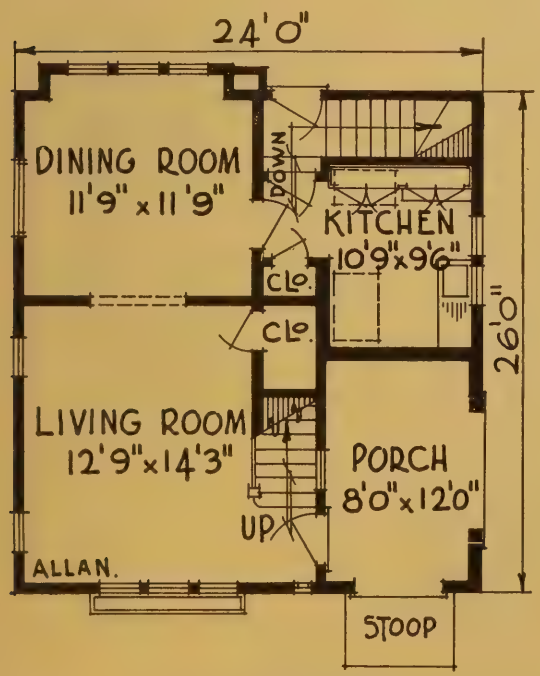


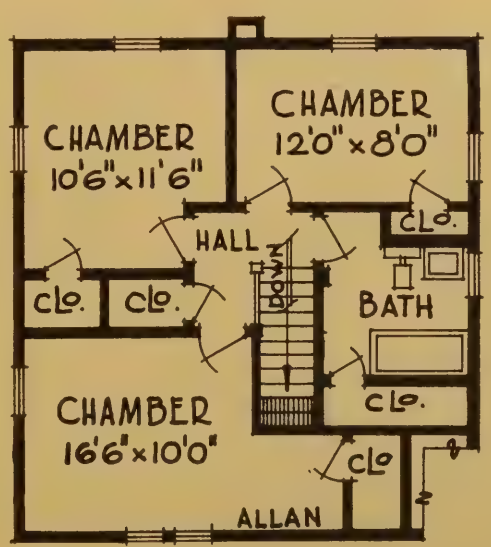
6 Rooms and Bath

"The ALLAN"

24 Ft. Wide x 26 Ft. Deep

A COMPACT dwelling suitable for the average family, and inexpensive to build. The arched entrance and corner porch are attractively done. A well arranged kitchen devised to save the housewife steps, features the downstairs. The stucco is on metal lath.





SIZES:

Extreme Width	28' 6"
Extreme Depth	32' 3"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

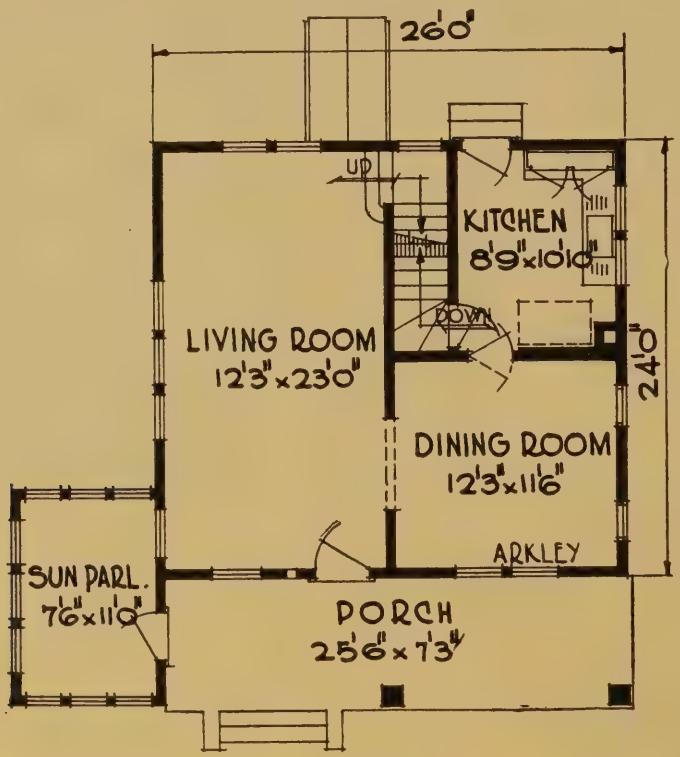
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



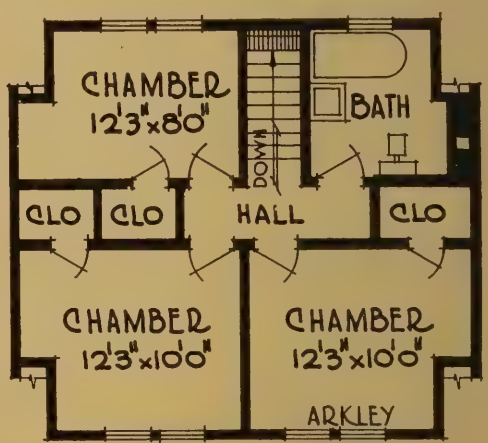
6 Rooms, Bath and Sun Parlor

"The ARKLEY"

26 Ft. Wide x 24 Ft. Deep



AN inexpensive home in good taste. The stucco is applied on wood lath. The sun parlor is isolated, giving added charm to this room. The kitchen is replete with conveniences.



SIZES:

Extreme Width	38′ 0″
Extreme Depth	40′ 6″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

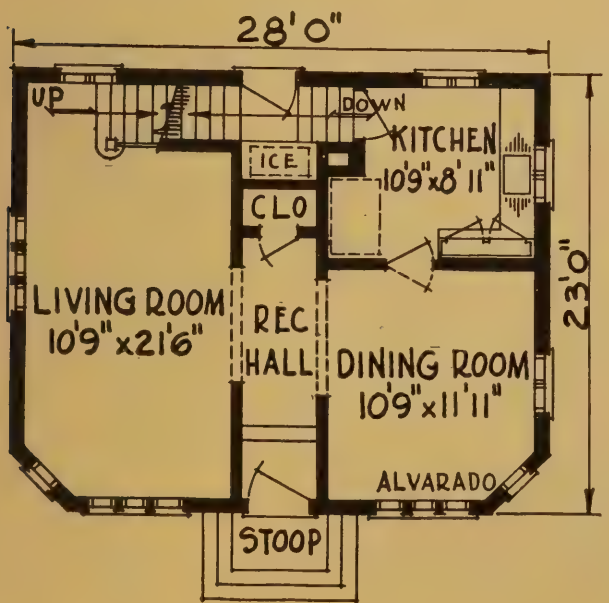


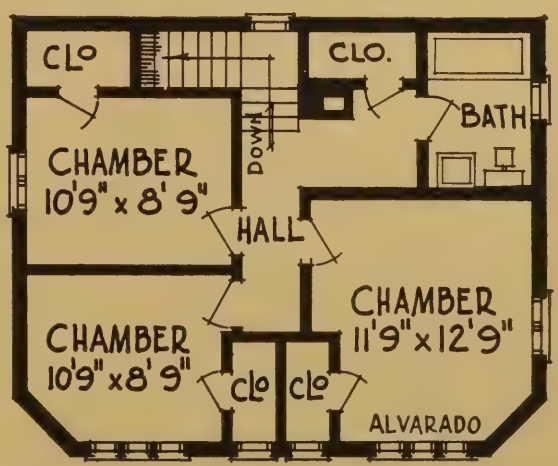
6 Rooms and Bath

"The ALVARADO"

28 Ft. Wide x 23 Ft. Deep

HERE is an original design of pleasing exterior. The outside walls are constructed of tile with finish of trowelled stucco. It is a substantial home and simple in construction.





SIZES:

Extreme Width	33' 0"
Extreme Depth	30' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

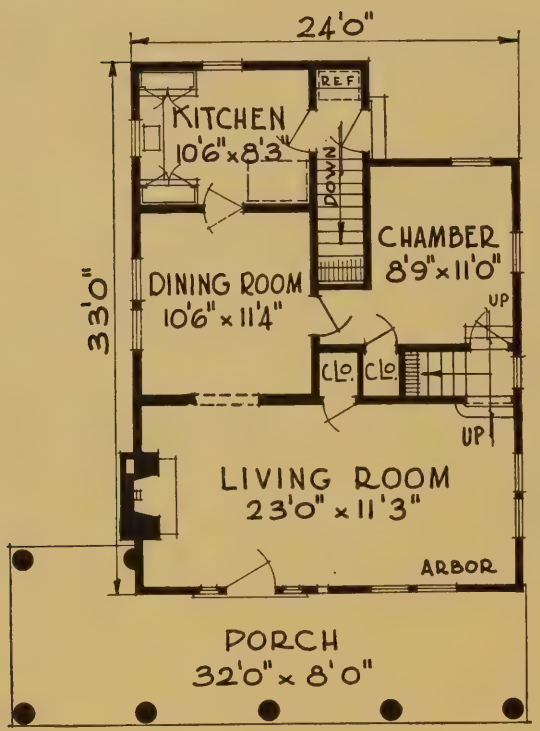
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

"The ARBOR"

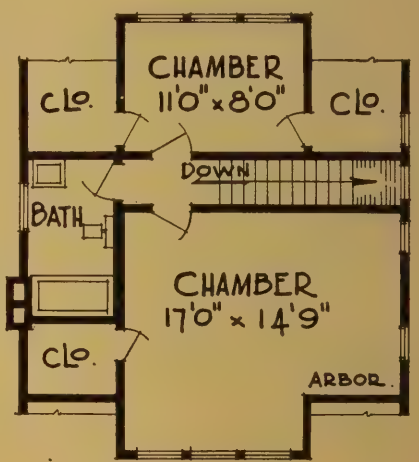
24 Ft. Wide x 33 Ft. Deep



TUCKED away in the trees or out in the open, the "Arbor" is equally attractive. The long open porch with its impressive columns and projecting beams is comfortable as well as decorative.

Do not overlook the private chamber on the first floor nor the two large chambers upstairs.

The house is of frame construction with stucco on metal lath.



SIZES:

Extreme Width	35' 6"
Extreme Depth	44' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

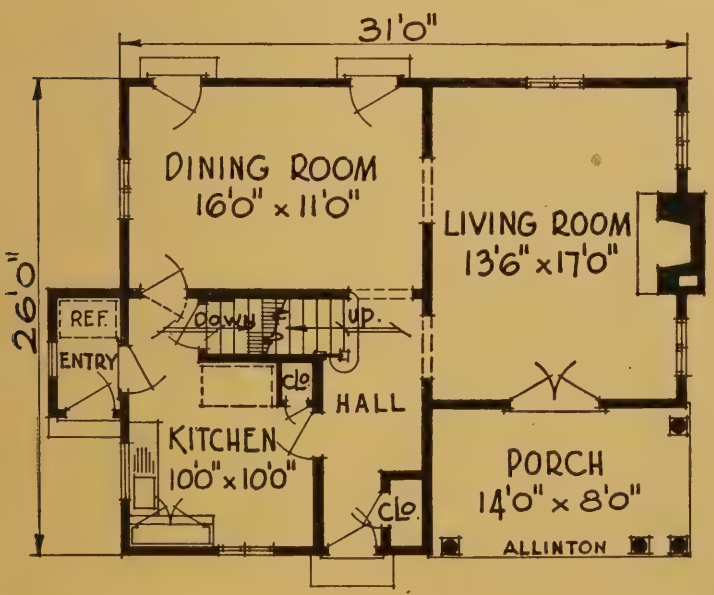
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



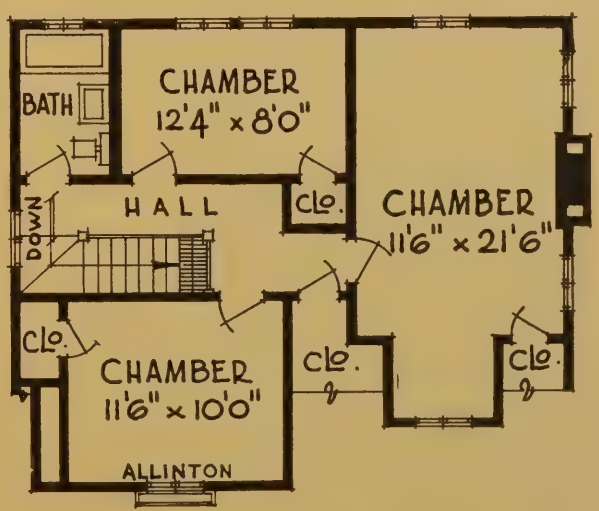
6 Rooms and Bath

"The ALLINTON"

31 Ft. Wide x 26 Ft. Deep



ECONOMY of space and construction cost has been the main consideration of the Architect here. Yet he has managed to achieve a very real beauty. The stucco is on metal lath. Note that the chambers are extra large, a feature to be appreciated by the family seeking comfort.



SIZES:

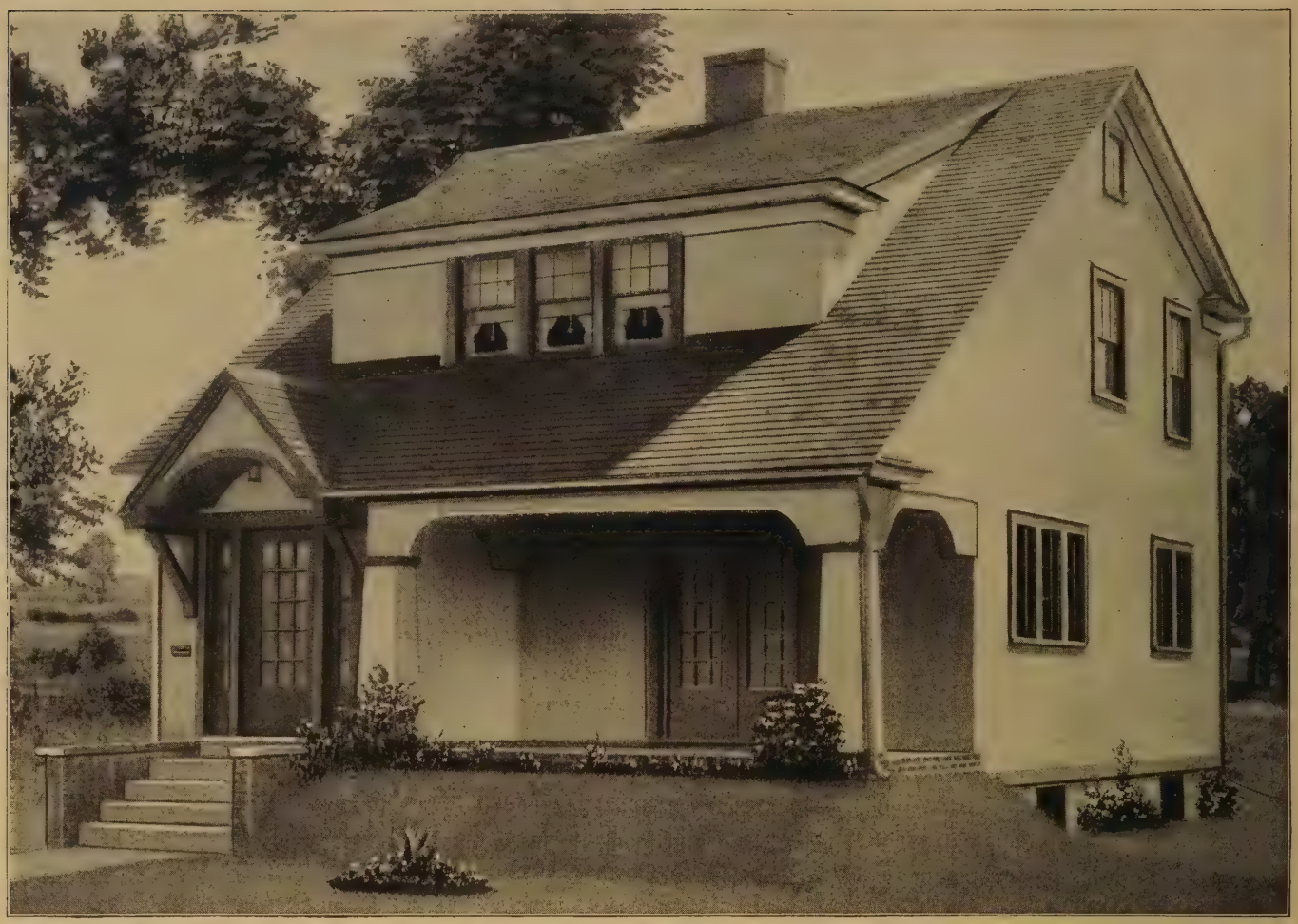
Extreme Width	37′ 0″
Extreme Depth	30′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 6″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

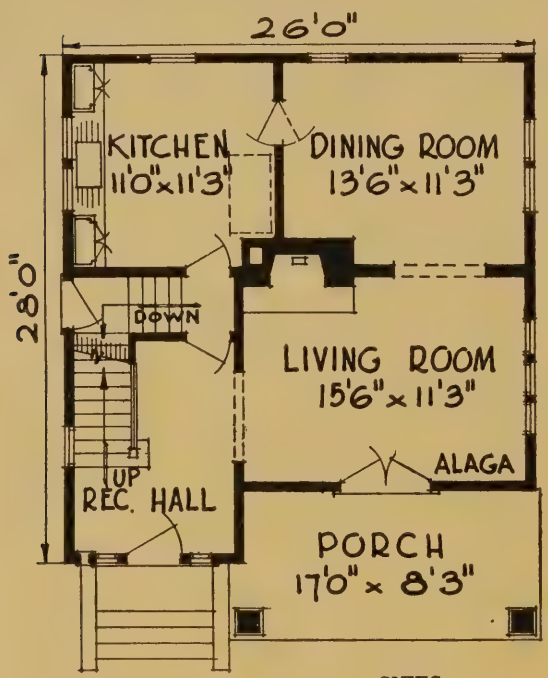
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



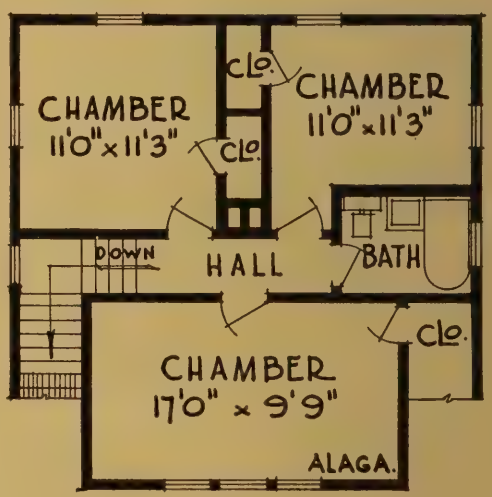
6 Rooms and Bath

"The ALAGA"

26 Ft. Wide x 28 Ft. Deep



THE long sloping roof, the interesting entrance, and the snug porch all tend to set the "Alaga" apart from its neighbors. One enters directly into the large reception hall, an indispensable feature to the family that entertains. Large airy chambers mark the upstairs. The stucco is on wood lath.



SIZES:

Extreme Width	39' 0"
Extreme Depth	36' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

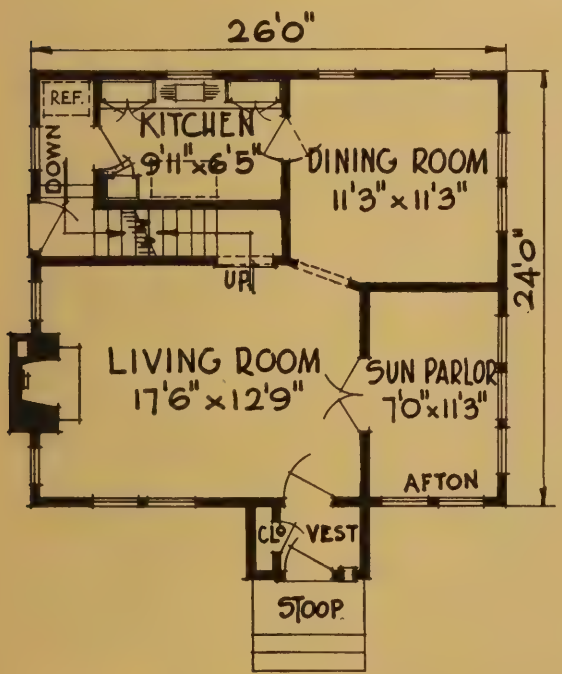
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



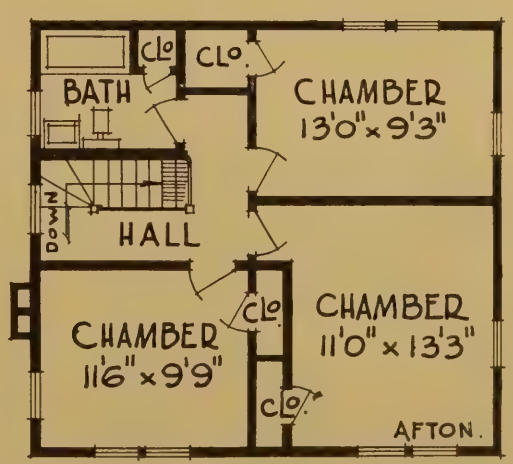
6 Rooms, Bath and Sun Parlor

"The AFTON"

26 Ft. Wide x 24 Ft. Deep



MANY interesting roof angles account for the attractiveness of the "Afton." Constructed in stucco upon metal lath. A sun parlor for summer comfort, and a big fireplace for winter comfort.



SIZES:

Extreme Width	28′ 6″
Extreme Depth	34′ 6″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

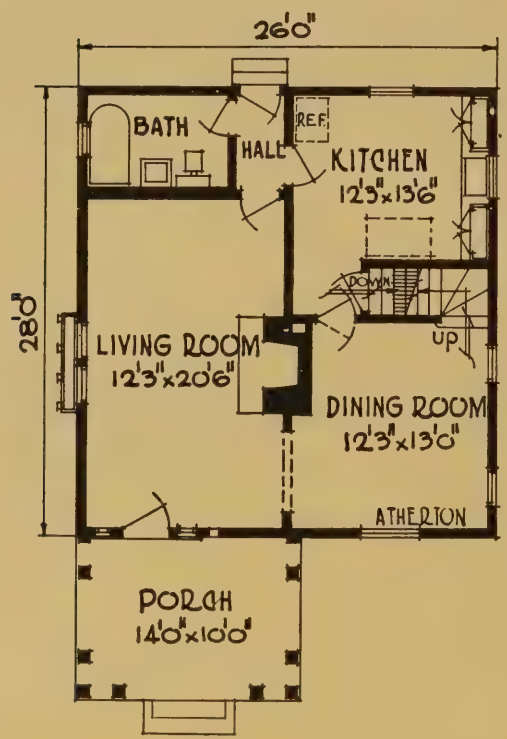
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



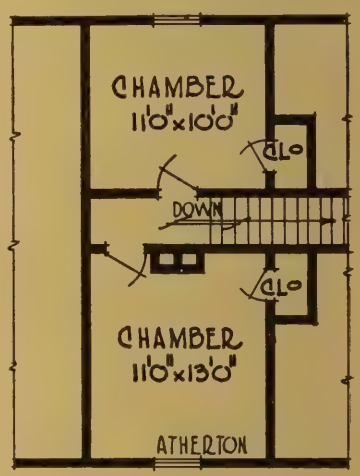
5 Rooms and Bath

"The ATHERTON"

26 Ft. Wide x 28 Ft. Deep



A HOME of singular charm. The architect has achieved something different, without overstepping into the freakish. The interior is as neatly disposed as the outside is attractive. A perfect home for the newlyweds to step into. The stucco is on wood lath.



Correctly drawn plans are essential for the erection of attractive homes.

SIZES:

Extreme Width	31′ 0″
Extreme Depth	42′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications and Two (2) Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

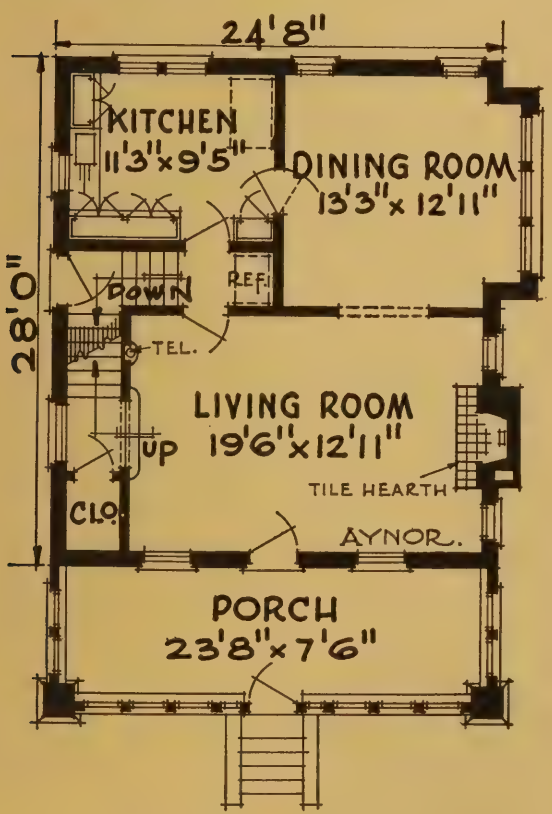
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



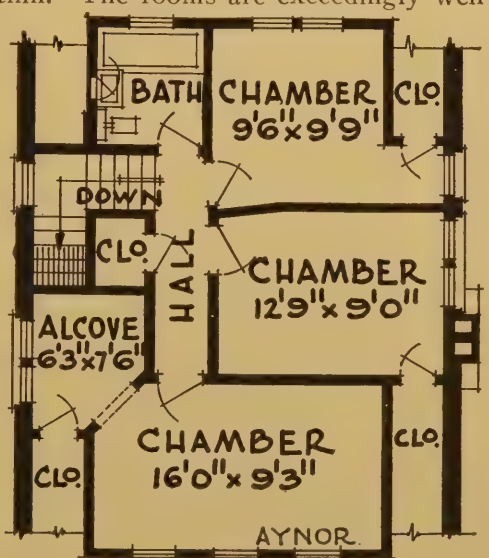
6 Rooms, Bath and Alcove

"The AYNOR"

24 Ft. 8 In. Wide x 28 Ft. Deep



A COMPACT, trim dwelling that suggests the warmth and comfort found within. The rooms are exceedingly well arranged and within easy access of each other. Turn your attention for a moment to the alcove upstairs and think of the many attractive possibilities it contains as den, dressing room, library, etc.



The exterior walls of this home are built of cinder concrete building blocks. Stucco and plaster are applied directly to blocks.

SIZES:

Extreme Width	30' 0"
Extreme Depth	42' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

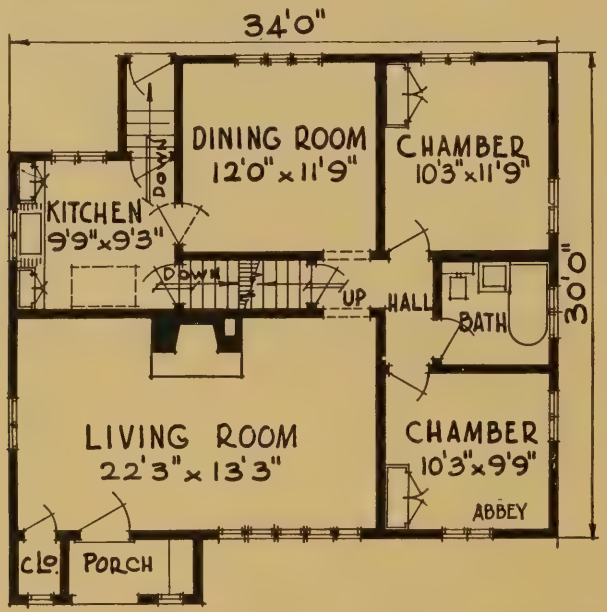
"The ABBEY"

34 Ft. Wide x 30 Ft. Deep

THE "ABBEY" bespeaks taste and distinction.

Stucco with half timbers, shutters and divided lights are well combined to produce a desirable effect.

The stucco is backed up with metal lath. Main rooms open into the small central hall.



Steel sash are provided to make this a model home with the maximum light.

The Blue Print Plans are Complete with Full Information and Construction Details.

SIZES:

Extreme Width	47′ 0″
Extreme Depth	35′ 0″
Main Floor Ceiling	9′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Chicago.—Rochester.—Detroit.—New York.

HOME BUILDERS CATALOG CO.

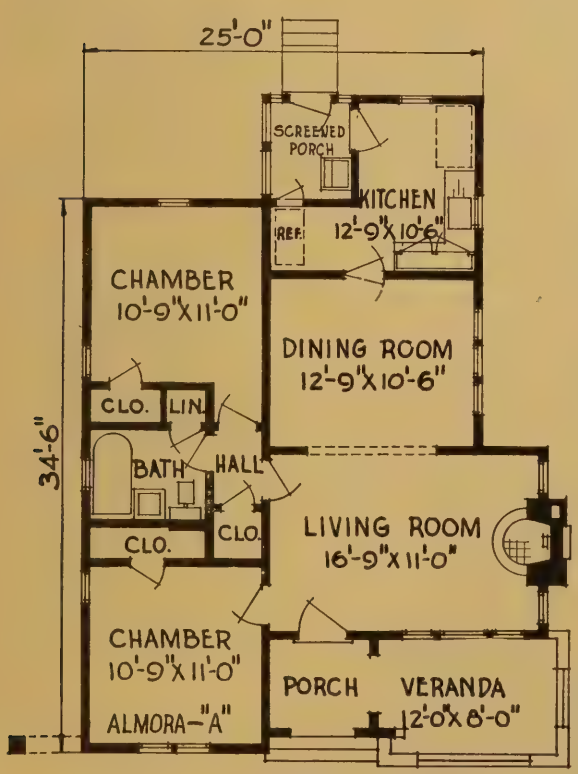
Secure above plans, etc., from your local Lumber or Building Material Dealer.



5 Rooms and Bath

"The ALMORA"

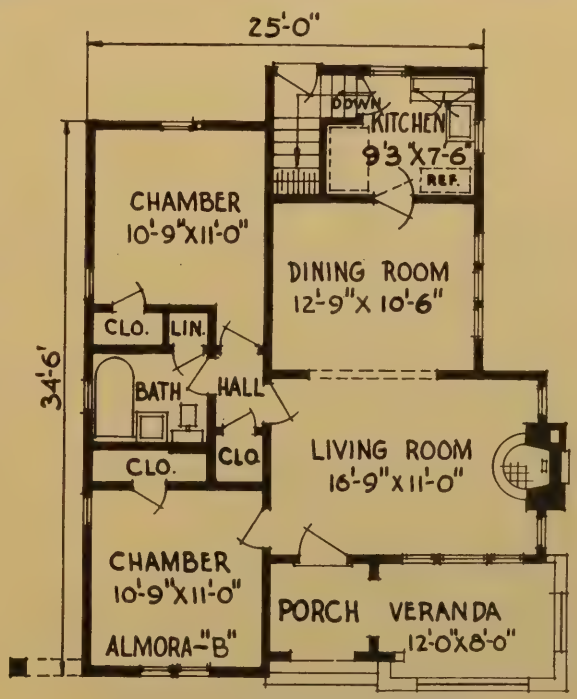
25 Ft. Wide x 34 Ft. 6 In. Deep



PLAN "A"—WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	35' 6"
Extreme Depth—Plan "A"	43' 6"
Extreme Depth—Plan "B"	39' 0"
Main Floor Ceiling	8 6"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

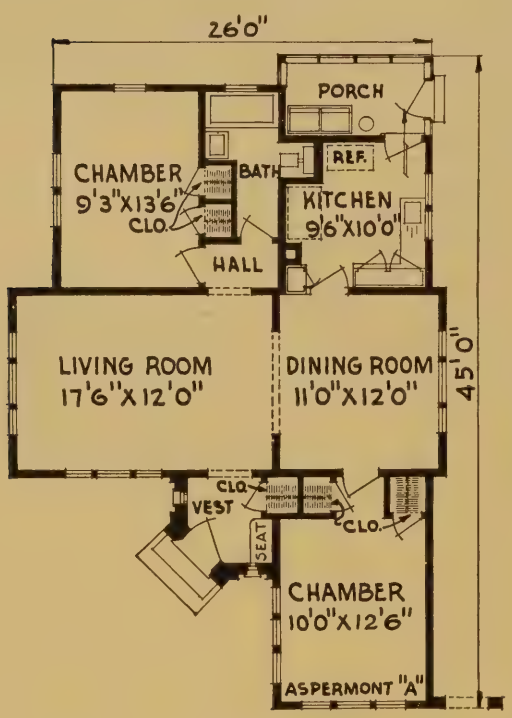


5 Rooms and Bath

"The ASPERMONT"

30 Ft. Wide x 45 Ft. Deep

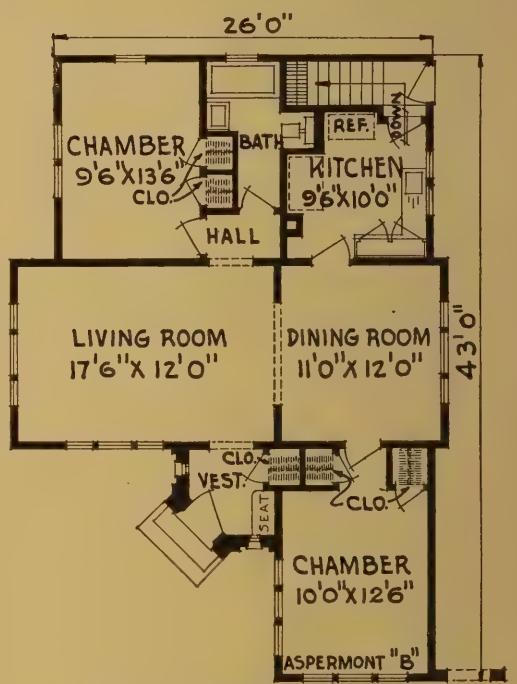
THE particular appeal of the "Aspermont" lies in a number of things. First of all it is stylish. Then the entrance is perfect, monumental, yet inviting. The stucco is mounted on metal lath. Cane fibre sheathing is used. The rooms are large and the arrangement is satisfying.



PLAN "A"—WITHOUT BASEMENT

SIZES:

Extreme Width	34' 9"
Extreme Depth	44' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"



PLAN "B"—WITH BASEMENT

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Dining Nook

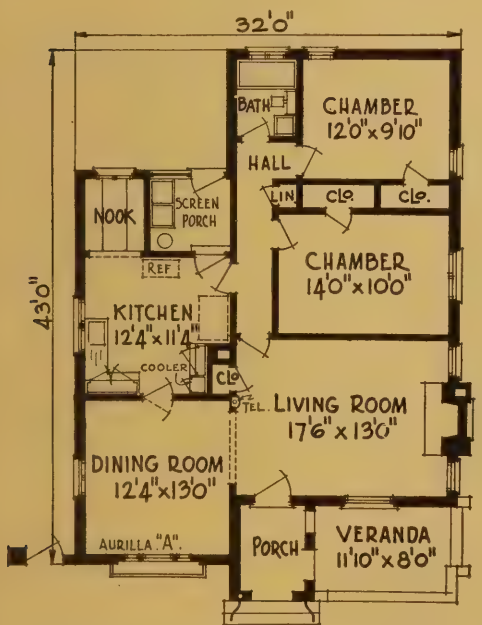
"The AURILLA"

32 Ft. Wide x 43 Ft. Deep

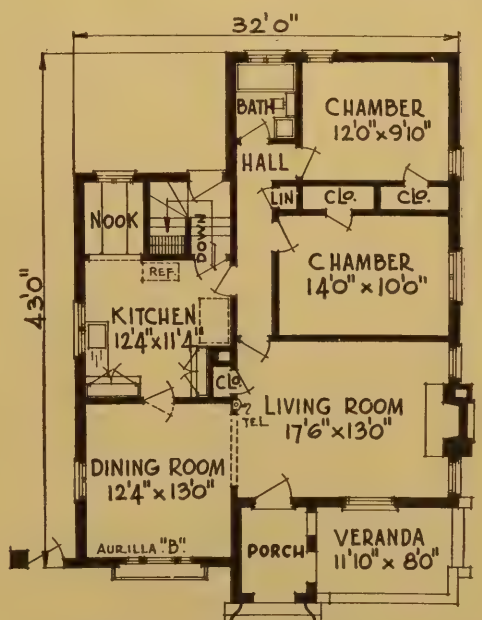
THE "Aurilla" is a rich home, rich in detail and rich in general appearance. The tile covered entrance is artistic and inviting. The iron rails, gate and window guards are right in the Spanish tradition. The outside walls are built of stucco on hollow tile, giving permanency and beauty. The floor plan is excellent and deserves careful study.

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

Extreme width	39' 0"
Extreme Depth	48' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

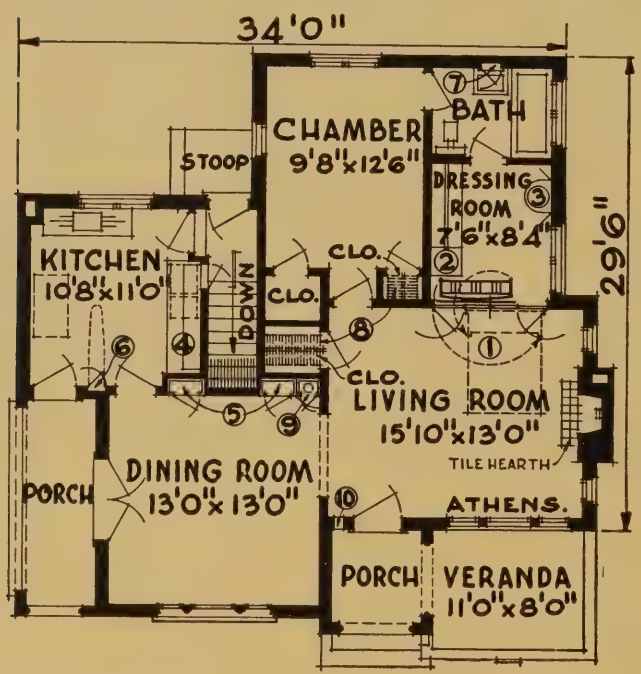


4 Rooms, Bath and Dressing Room

"The ATHENS"

34 Ft. Wide x 34 Ft. 9 In. Deep

A CHARMING Spanish type with a pleasing tile roof. Four rooms with five room efficiency offering every comfort in a well built small house, with little housework. The living room becomes an airy bedroom at night. Space saving devices in kitchen add greatly to its efficiency. Outside walls are of hollow tile with stucco exterior finish.



KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Bed"
2—"Dressing Cabinet"
3—"Dressing Table"
4—"Combination Kitchen Cabinet and Refrigerator"
5—"China Cabinets"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
8—"Adjustable Clothes Hangers"
9—"Telephone Cabinet"
10—"Built-in Mail Box"

SIZES:

Extreme Width	37' 0"
Extreme Depth	39' 4"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

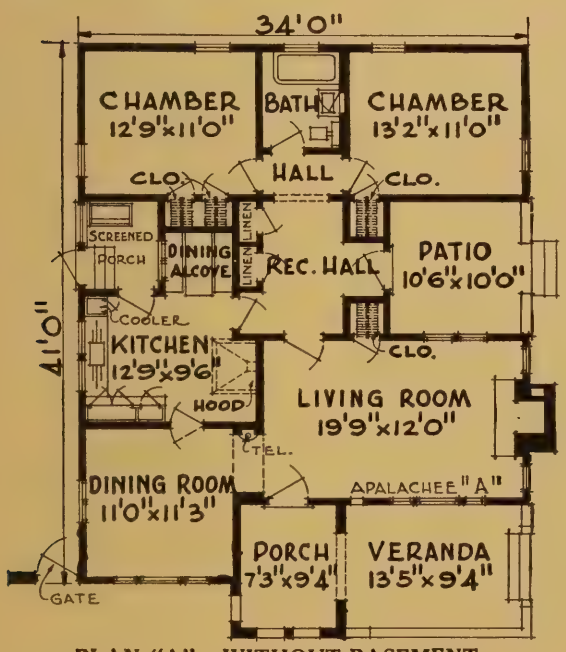
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Dining Alcove

"The APALACHEE"

34 Ft. Wide x 41 Ft. Deep

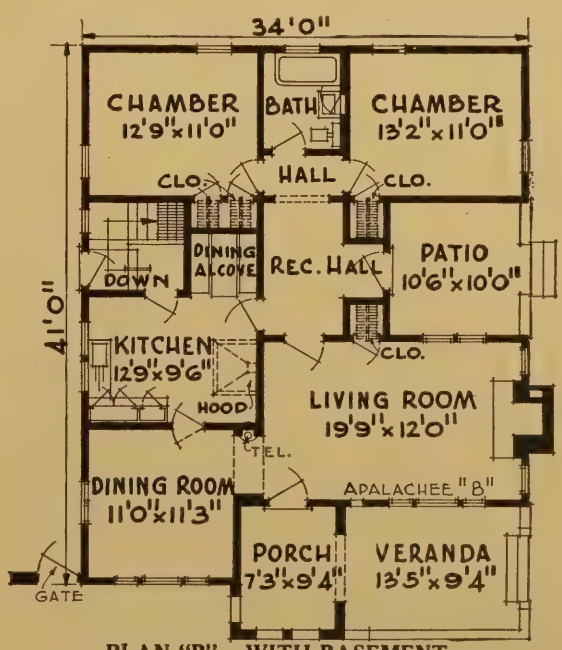


PLAN "A"—WITHOUT BASEMENT

THE beauty and artistry of Spain comes to us in the "Apalachee." There is no need to enumerate the attractive features. The picture and floor plan are suggestive and should be sufficient to stimulate the imagination so as to see clearly the completed whole.

Important

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme width	41' 6"
Extreme depth	45' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

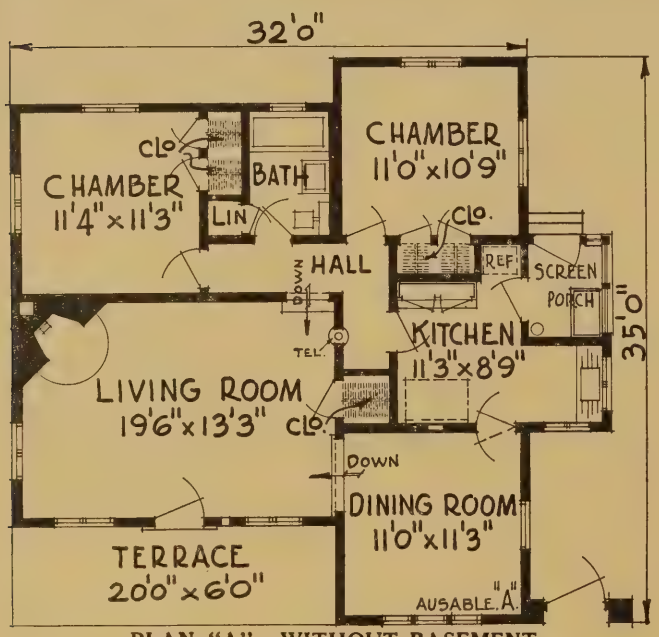
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AUSABLE"

32 Ft. Wide x 35 Ft. Deep



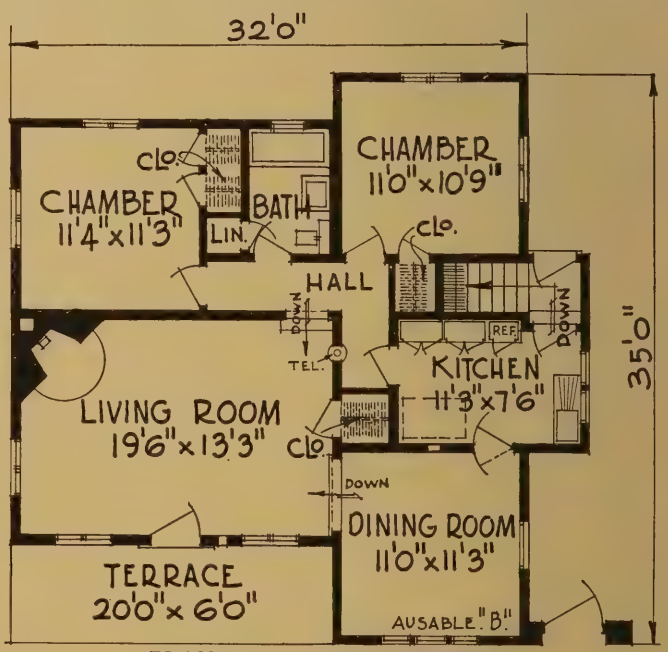
PLAN "A"—WITHOUT BASEMENT

SIZES:

Extreme Width	39' 0"
Extreme Depth	35' 10"
Main Floor Ceiling (Living Room)	10' 3"
Main Floor Ceiling (Balance)	9' 0"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ANTOINE"

35 Ft. Wide x 39 Ft. Deep



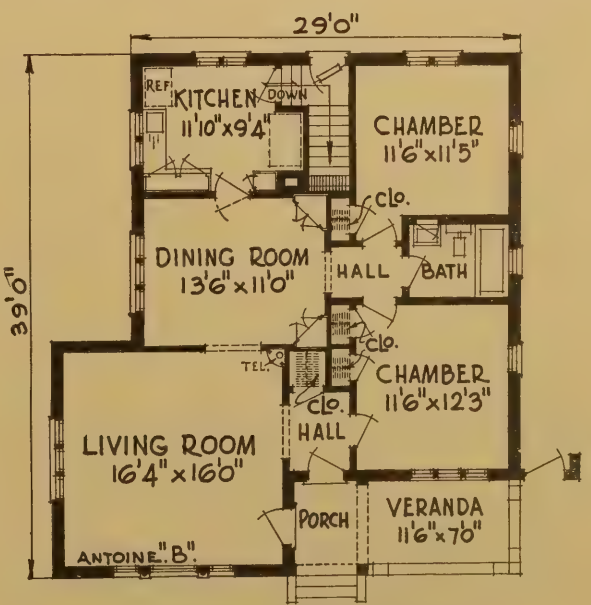
PLAN "A"—WITHOUT BASEMENT

SIZES:

Extreme Width	39' 6"
Extreme Depth	41' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



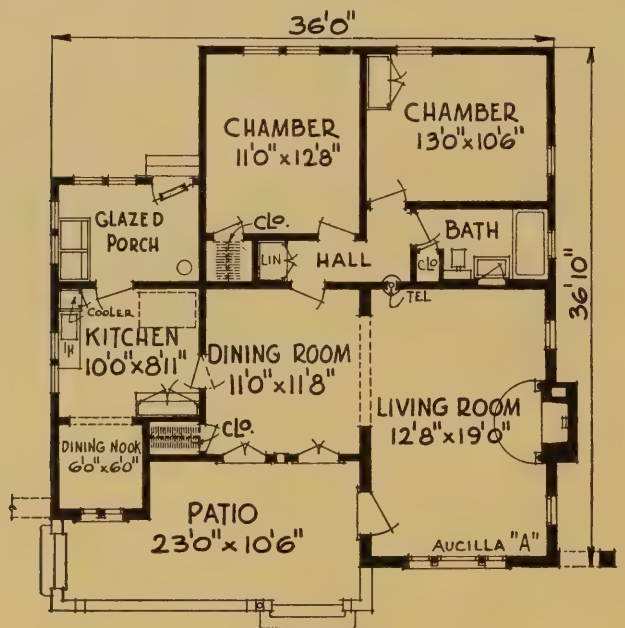
5 Rooms, Bath and Dining Alcove

"The AUCILLA"

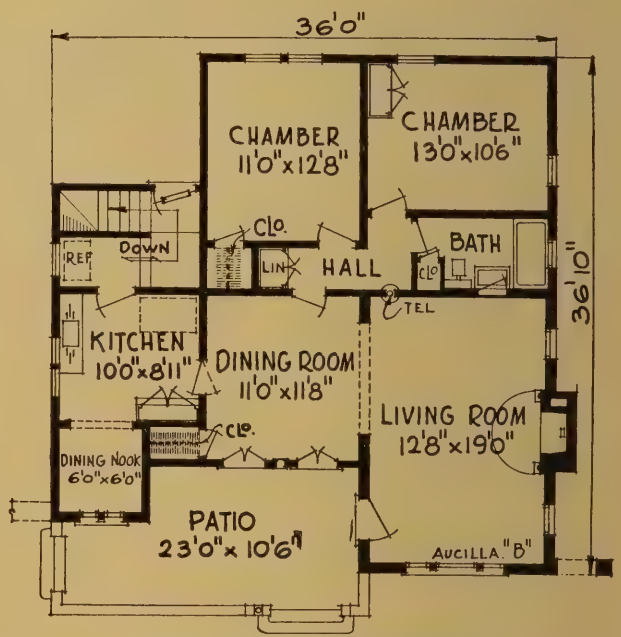
36 Ft. Wide x 36 Ft. 10 in. Deep

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

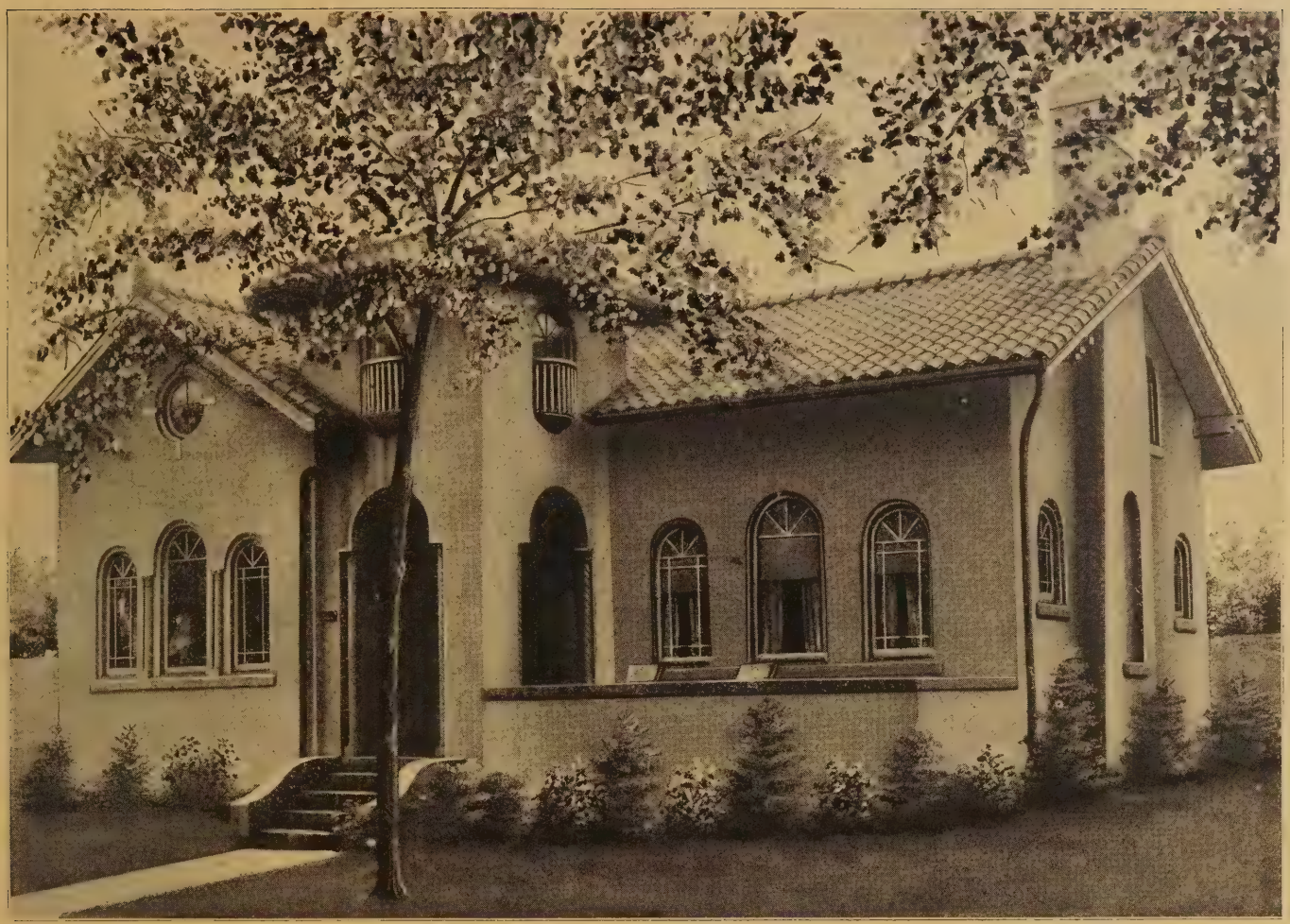
Extreme Width	**52' 0"**
Extreme Depth	**42' 0"**
Main Floor Ceiling	**8' 6"**
Basement Ceiling—Plan "B"	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

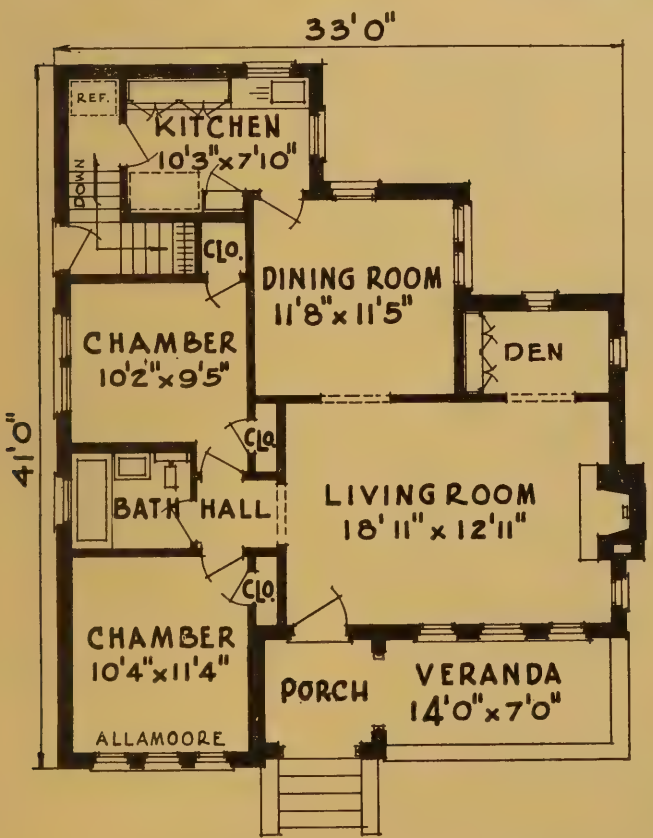
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Den and Bath

"The ALLAMOORE"

33 Ft. Wide x 41 Ft. Deep



THE individual beauty of Spanish architecture is portrayed in the "Allamoore." The tile roof, the tower, the arched windows are decorative yet practical features. The interior is all to be desired. Good-sized rooms give airy freedom in summer and the big fireplace and snug den are fine for winter.

HOLLOW TILE WALL CONSTRUCTION WITH STUCCO FOR OUTSIDE FINISH ASSURES A HOME OF STRENGTH AND DURABILITY

SIZES:

Extreme Width	37' 0"
Extreme Depth	47' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



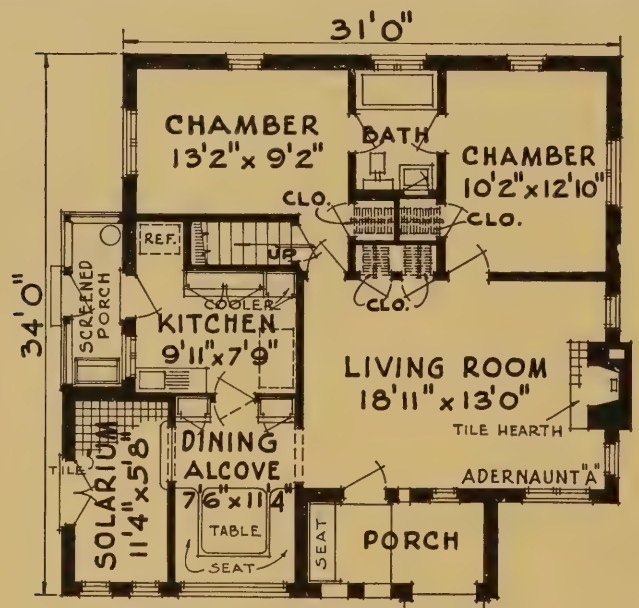
4 Rooms, Bath, Dining Alcove and Solarium

"The ADERNAUNT"

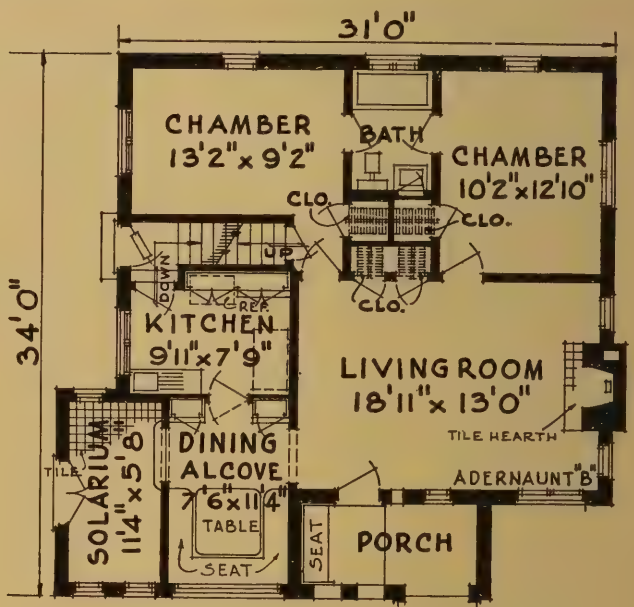
35 Ft. 6in. Wide x 34 Ft. Deep

IMPORTANT

When ordering plans of this design state whether wanted with or without basement. The Closet in the Living Room offers ideal space for Disappearing Bed.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	36' 6"
Extreme Depth	35' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.

Chicago.—Rochester.—Detroit.—New York.

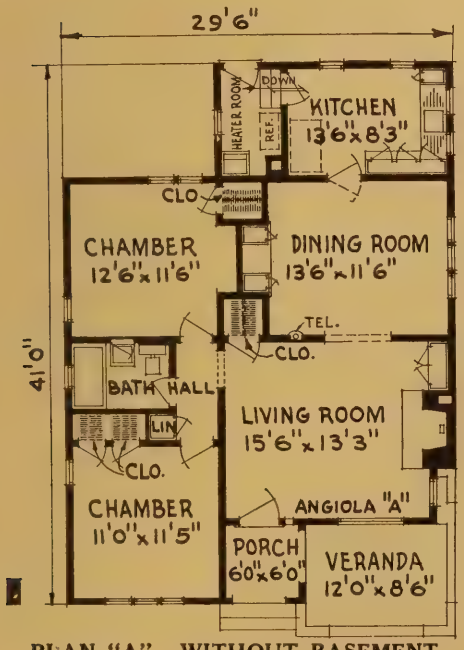


5 Rooms and Bath

"The ANGIOLA"

29 Ft. 6 In. Wide x 41 Ft. Deep

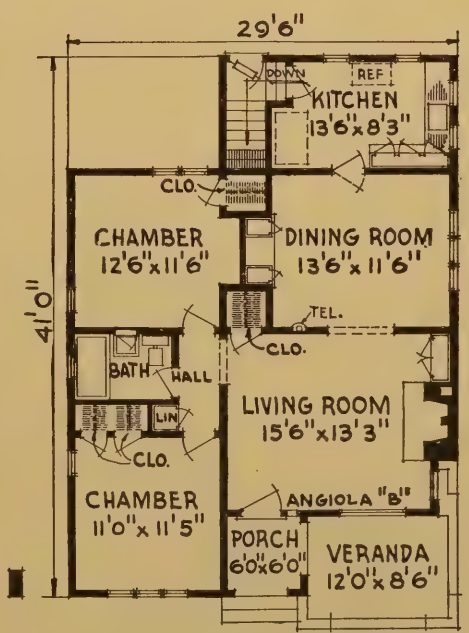
WE ARE coming into an age of color and luxuriousness. The "Angiola" is a hint of the future and heralds the coming artistry and taste. The richness and color of Moorish architecture and modern constructional efficiency are combined here. It is a bungalow for the far-seeing home-seeker.



PLAN "A"—WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	34' 6"
Extreme Depth	43' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

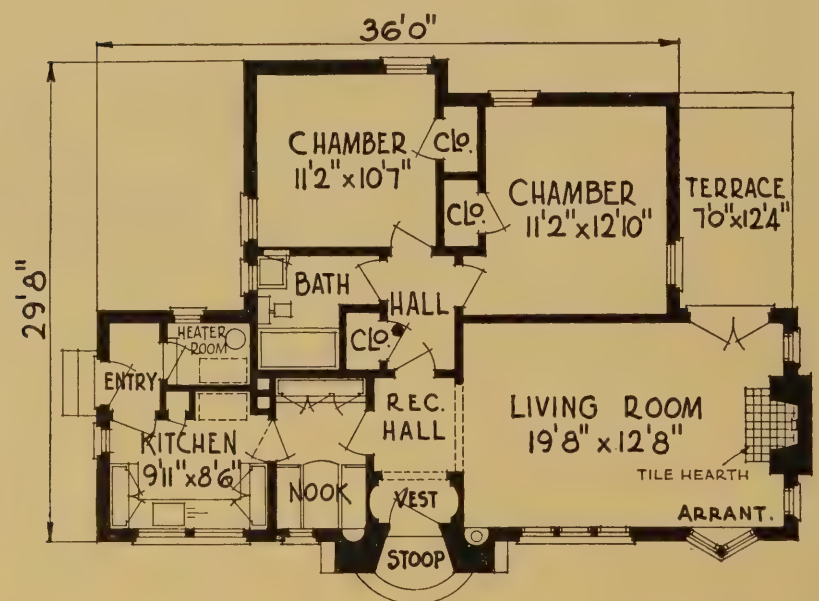


4 Rooms, Bath and Dining Nook

"The ARRANT"

43 Ft. 3 In. Wide x 29 Ft. 8 In. Deep

THE "Arrant" radiates color and richness. The occasional brick trimming looks well against the creamy stucco. The entrance is at once imposing and inviting. From the moment you enter the vestibule you are captivated at every turn. All the coziness and comfort you could wish for.



HOLLOW TILE WALLS WITH BRICK WINDOW SILLS. ASBESTOS SHINGLES ARE USED FOR ROOF.

SIZES:

Extreme Width	45' 6"
Extreme Depth	37' 0"
Main Floor Ceiling	9' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Breakfast Alcove

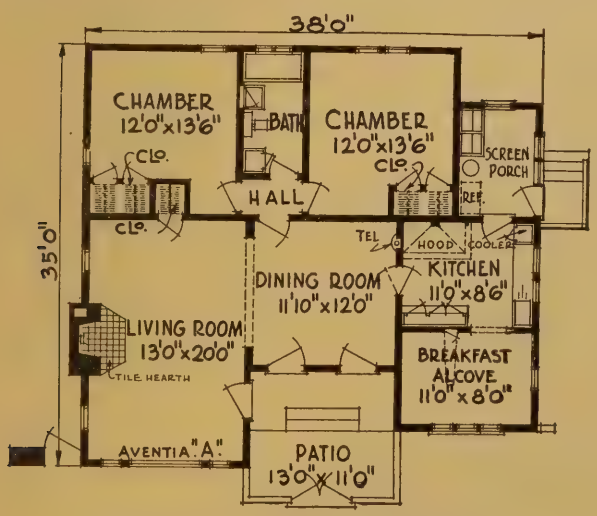
"The AVENTIA"

38 Ft. Wide x 35 Ft. Deep

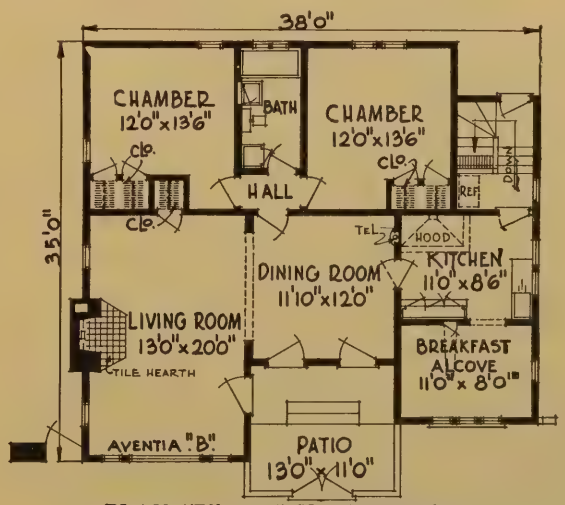
THE adaptability of Spanish architecture to modern taste and methods is quite remarkable. The style is preserved perfectly in the exterior, with its tile roof, patio and large windows. Inside you have an arrangement that for room and efficiency cannot be surpassed in our most modern architectural styles.

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width—Plan "A"	48' 0"
Extreme Width—Plan "B"	46' 0"
Extreme Depth	38' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**..... **$20.00**

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



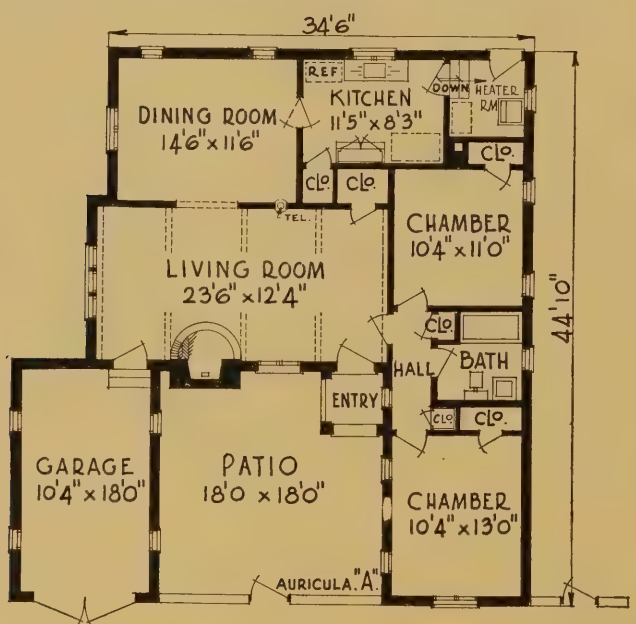
5 Rooms, Bath and Garage

"The AURICULA"

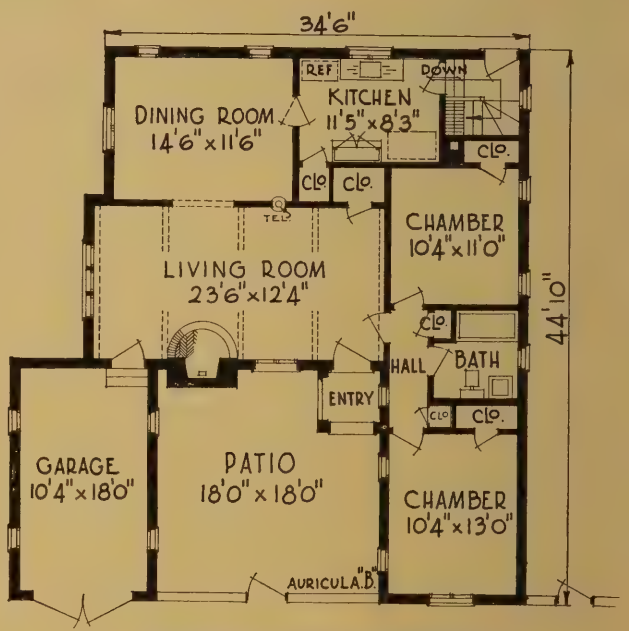
34 Ft. 6 In. Wide x 44 Ft. 10 In. Deep

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	**50' 0"**
Extreme Depth	**46' 0"**
Main Floor Ceiling (Living Room)	**10' 0"**
Main Floor Ceiling (Balance)	**9' 0"**
Basement Ceiling—Plan "B"	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Dining Alcove

"The AMULET"

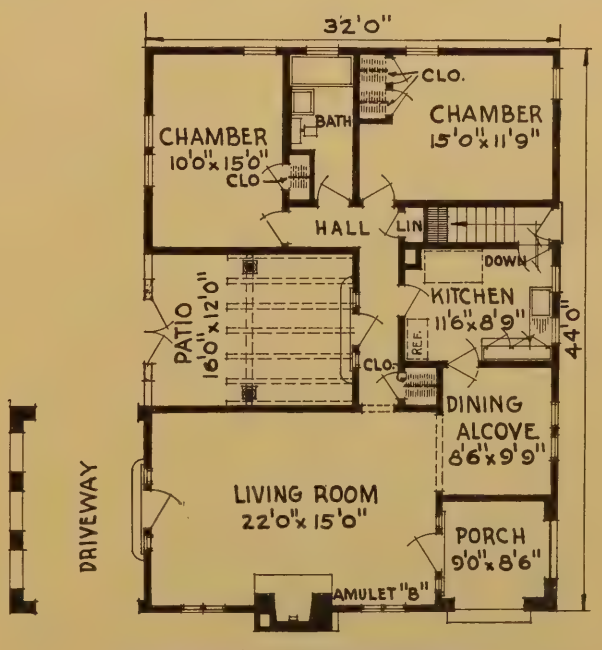
32 Ft. Wide x 44 Ft. Deep

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

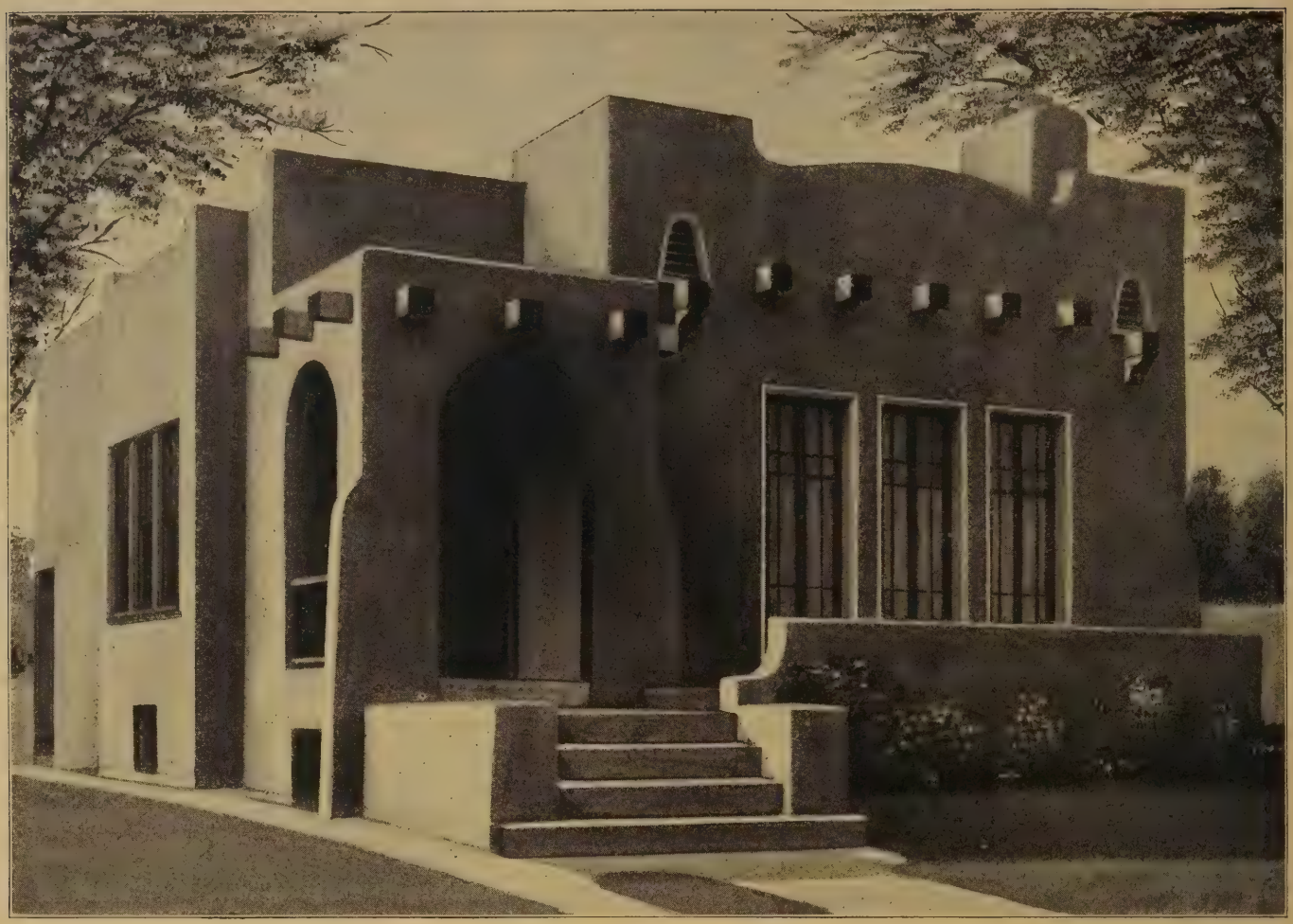
Extreme Width	46' 0"
Extreme Depth	47' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

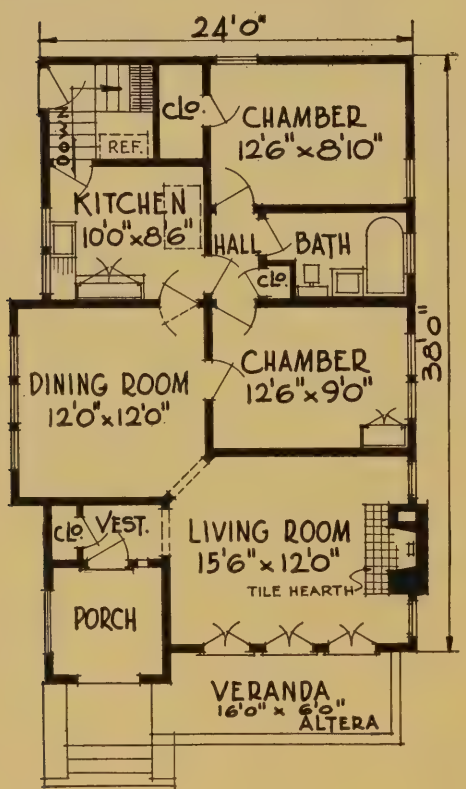
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALTERA"

24 Ft. Wide x 38 Ft. Deep



A BUNGALOW of the Italian type, so popular in California and the southern states. One glance at the floor plan reveals its practicality and convenience. Three high French doors open onto the front veranda. The stucco is backed with lath on wall board.

These Homes are Modern and Practical and Have Proven So in Actual Construction

SIZES:

Extreme Width	**29′ 0″**
Extreme Depth	**46′ 0″**
Main Floor Ceiling	**9′ 0″**
Basement Ceiling	**7′ 0″**

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

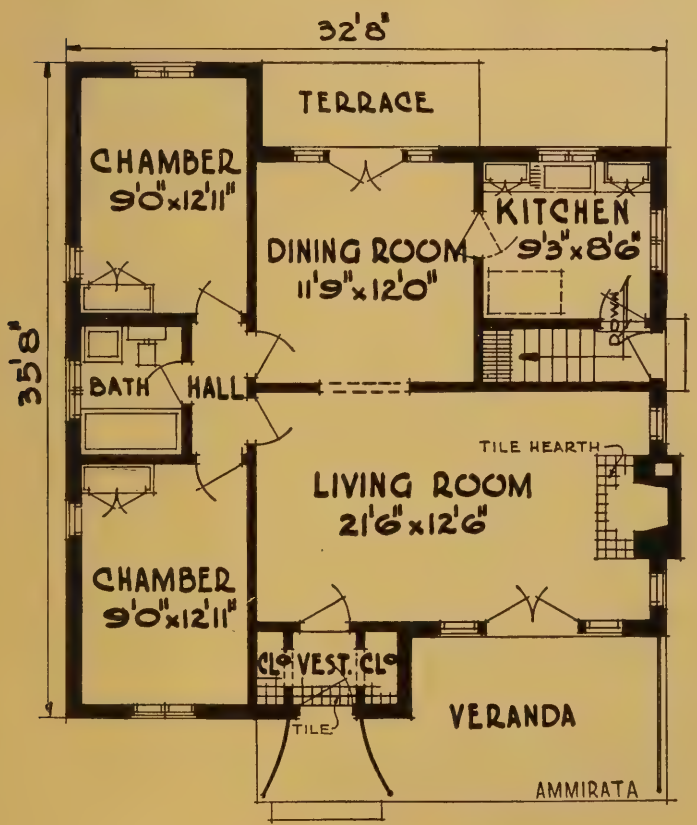
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AMMIRATA"

32 Ft. 8 In. Wide x 35 Ft. 8 In. Deep



A BUNGALOW displaying all the charm of the Southern Italian style. The tile roof and iron railing complete the picture.

The tile vestibule carries out the desired effect. Good-sized rooms assist in making the "Ammirata" a most fetching bungalow.

SIZES:

Extreme Width	33′ 6″
Extreme Depth	40′ 6″
Main Floor Ceiling	9′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

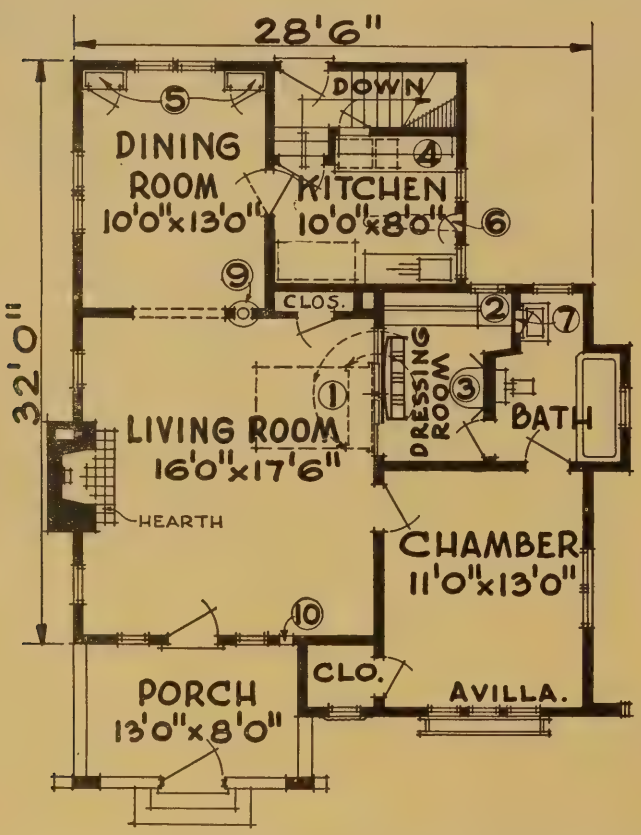
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Dressing Room

"The AVILLA"

28 Ft. 6 In. Wide x 36 Ft. Deep



A BUNGALOW along the Spanish Lines. A combination of stucco, tile and brick chimney are effectively blended into a handsome monolithic structure. Four rooms with five room efficiency. Here are features that would delight any prospective builder, yet the home is most economical to build. A full size disappearing bed in the living room makes it possible to convert this into a bedroom at night, thus giving the conveniences of an additional room.

KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Bed"
2—"Dressing Cabinet"
3—"Dressing Table"
4—"Combination Kitchen Cabinet and Refrigerator"
5—"China Cabinets"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
9—"Telephone Cabinet"
10—"Built-in Mail Box"

SIZES:

Extreme Width	**32' 0"**
Extreme Depth	**42' 0"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications and Two (2) Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

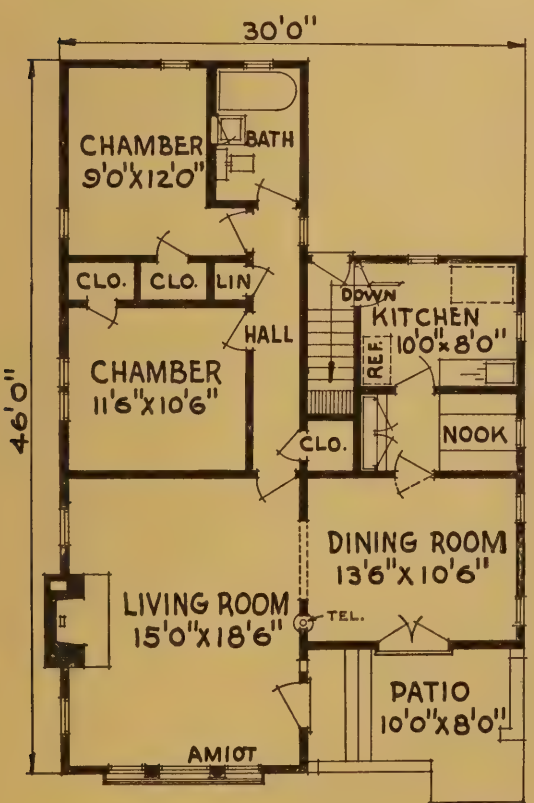
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Dining Nook

"The AMIOT"

30 Ft. Wide x 46 Ft. Deep



DISPLAYING a trim and colorful beauty, the "Amiot" is a home to be desired. The architect's excellent taste is apparent in all details, such as the arched casements and the iron railings. Study the floor plan and you will notice how the dining room and kitchen are in a way apart from the other rooms. A more admirable arrangement for a bungalow would be hard to find.

A PLEASING EFFECT IS GIVEN TO THE ROOF BY DOUBLING THE SHINGLES AT EVERY FOURTH ROW. OUTSIDE WALLS ARE FRAME WITH METAL LATH AND STUCCO EXTERIOR.

SIZES:

Extreme Width	31' 6"
Extreme Depth	47' 6"
Main Floor Ceiling (Living Room)	12' 0"
Main Floor Ceiling (Balance)	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

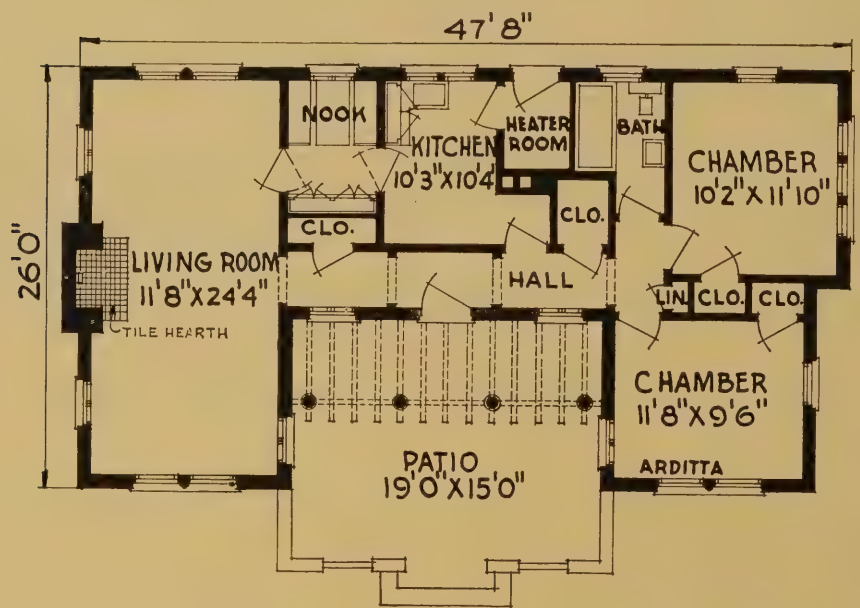


4 Rooms, Bath and Dining Nook

"The ARDITTA"

47 Ft. 8 In. Wide x 26 Ft. Deep

FROM the moment you enter the patio you are in a different world, a world of charm and peace. The aged, aristocratic atmosphere of Spanish architecture is retained. The arrangement is perfect, each room being a unit by itself, yet all within easy access of each other. Study it and appreciate its excellence.



THE OUTSIDE WALLS OF THIS DESIGN ARE CONSTRUCTED OF HOLLOW TILE TO WHICH STUCCO IS DIRECTLY APPLIED ON EXTERIOR AND PLASTER ON INTERIOR.

SIZES:

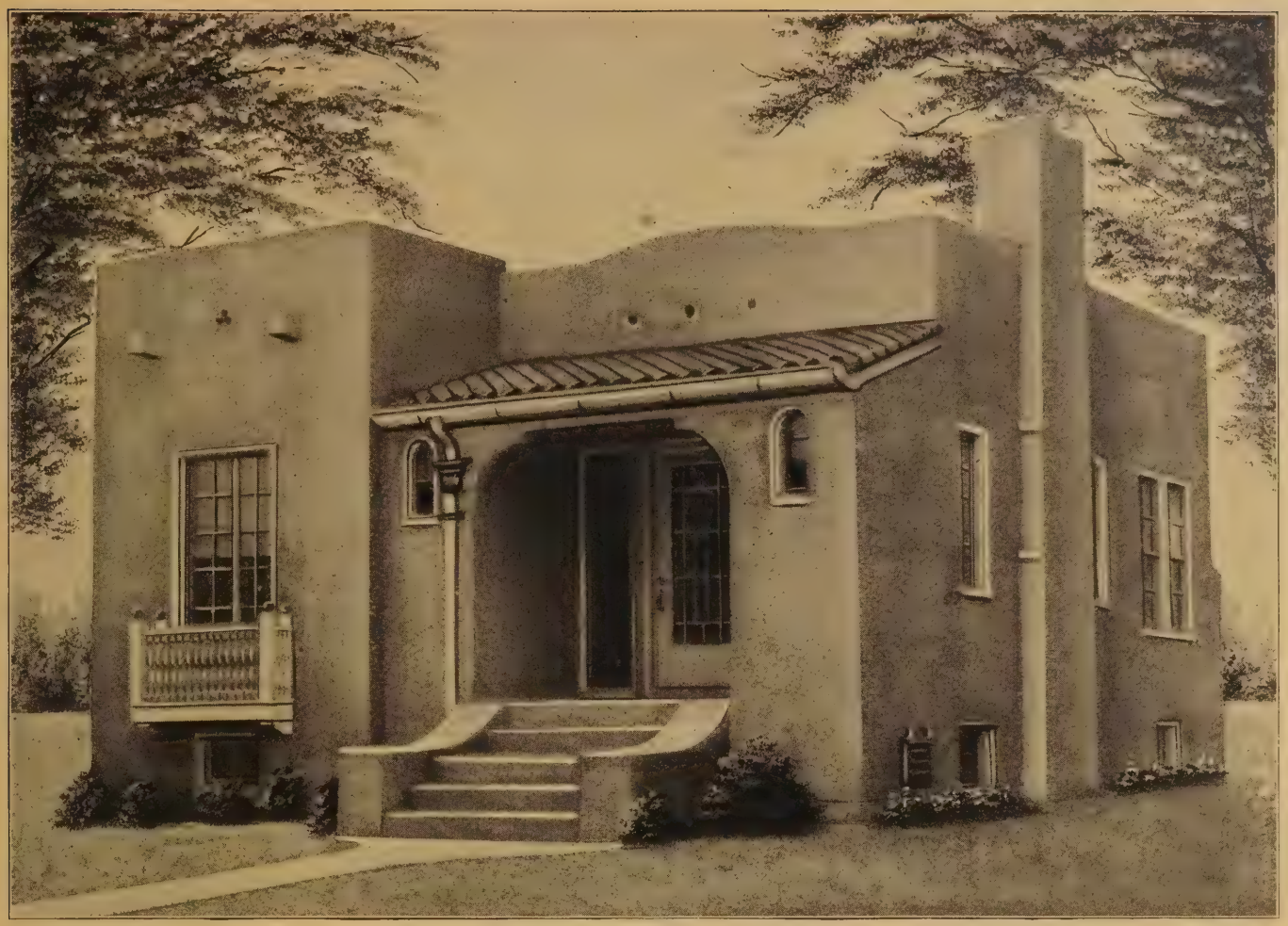
Extreme Width	49' 6"
Extreme Depth	34' 6"
Main Floor Ceiling	9' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

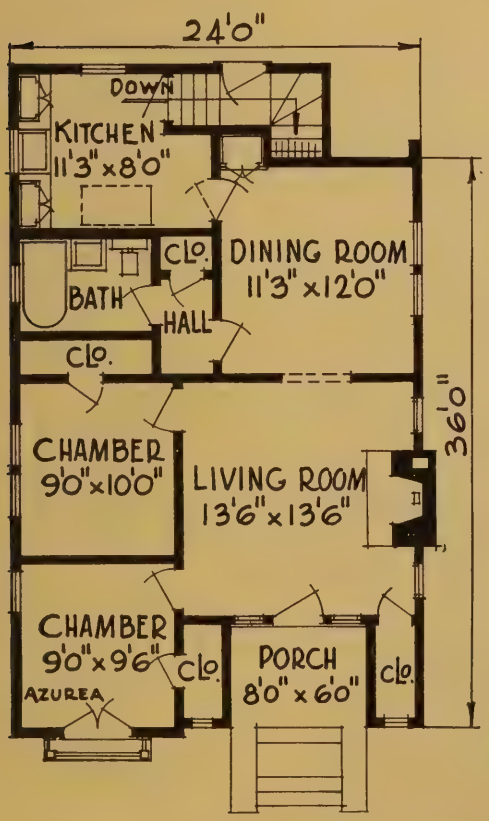
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AZUREA"

24 Ft. Wide x 39 Ft. Deep



THE Italian type here manifests its modern adaptability. The stucco is mounted on frame. To get the fine beauty of the "Azurea," you have to imagine it in colors, and see the brilliant tile roof against the more somber stucco background. The floor plan realizes all the advantages which a bungalow affords.

See plans with details showing method of sheathing and exterior lathing.

SIZES:

Extreme Width	25′ 6″
Extreme Depth	43′ 6″
Main Floor Ceiling	9′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



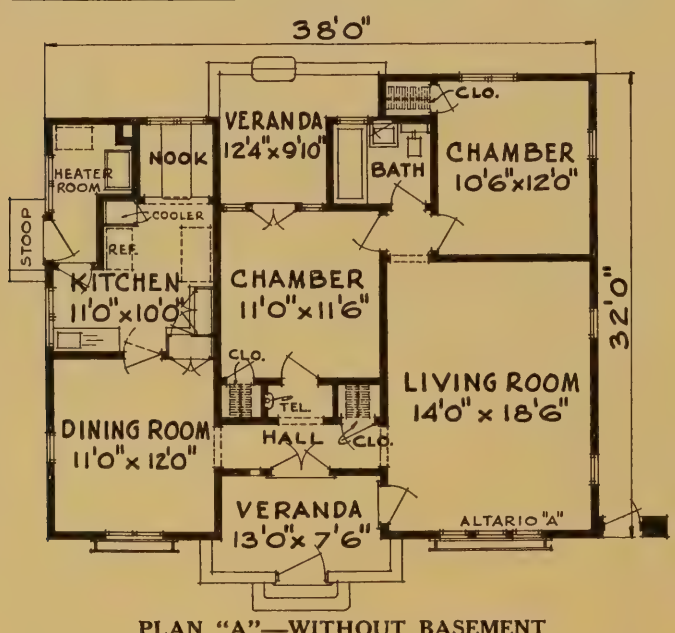
5 Rooms, Bath and Dining Nook

"The ALTARIO"

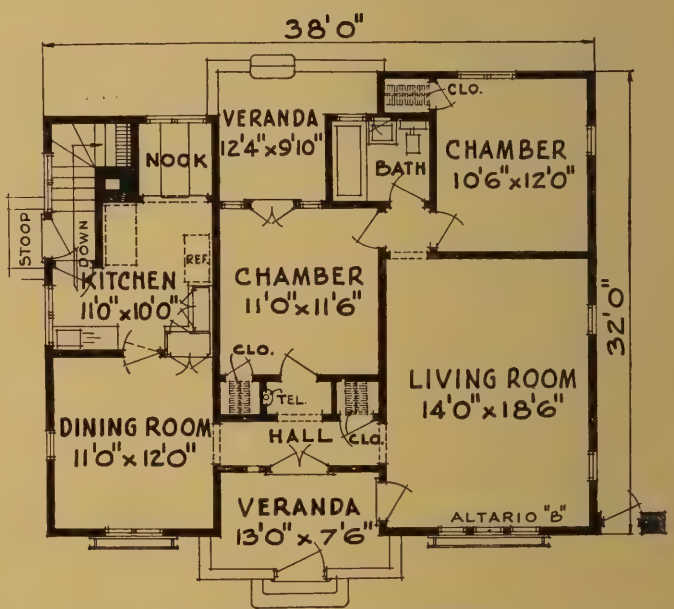
38 Ft. Wide x 32 Ft. Deep

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	45' 6"
Extreme Depth	38' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.

Chicago.—Rochester.—Detroit.—New York.

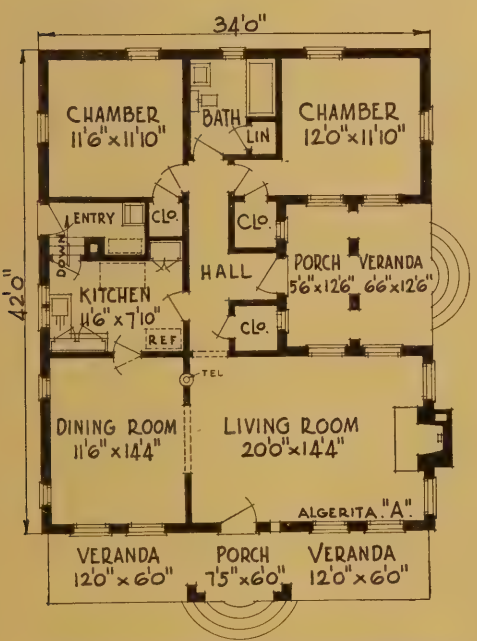


5 Rooms and Bath

"The ALGERITA"

34 Ft. Wide x 42 Ft. Deep

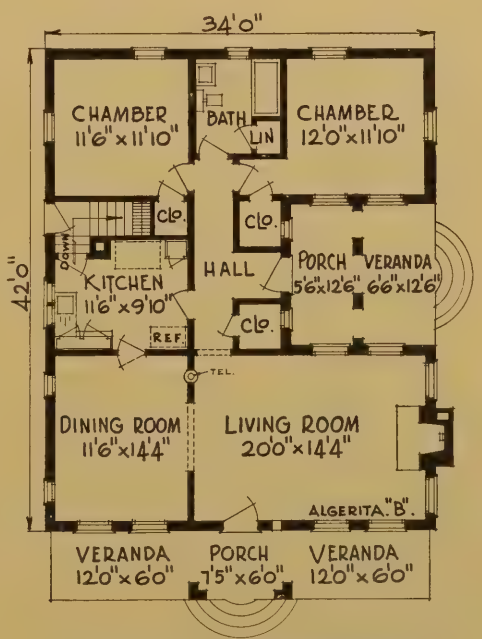
THE beauty of the "Algerita" is suggested by the picture. Imagine it in a rich reamy stucco topped by a brilliant colored tile roof and you have the whole story. The floor plan tells the story of the interior. Outside walls are hollow tile on which the stucco and plaster is directly applied.



PLAN "A"—WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

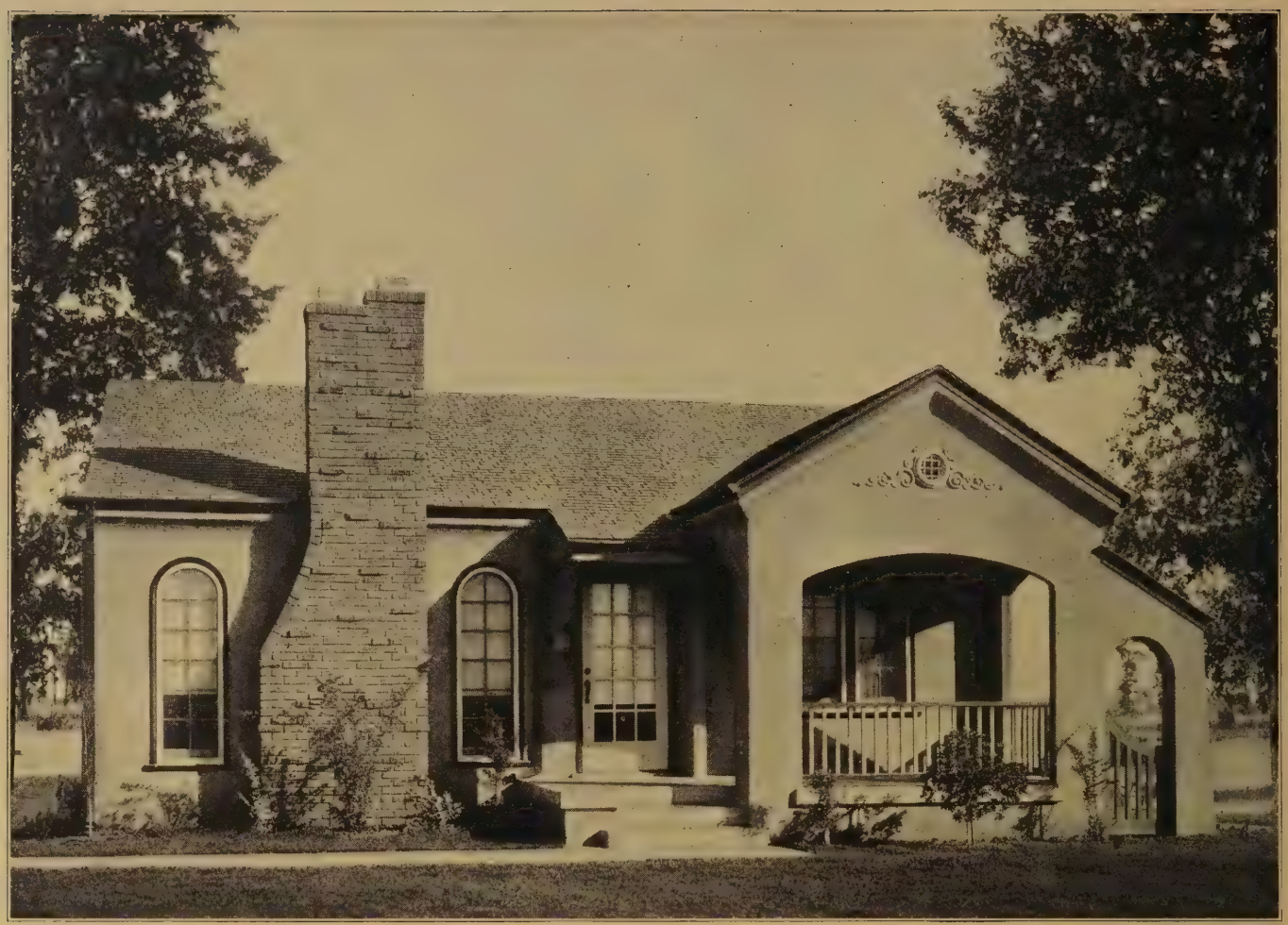
Extreme Width	41' 0"
Extreme Depth	51' 0"
Living and Dining Room Ceiling	10' 0"
Main Floor Ceiling (Balance)	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

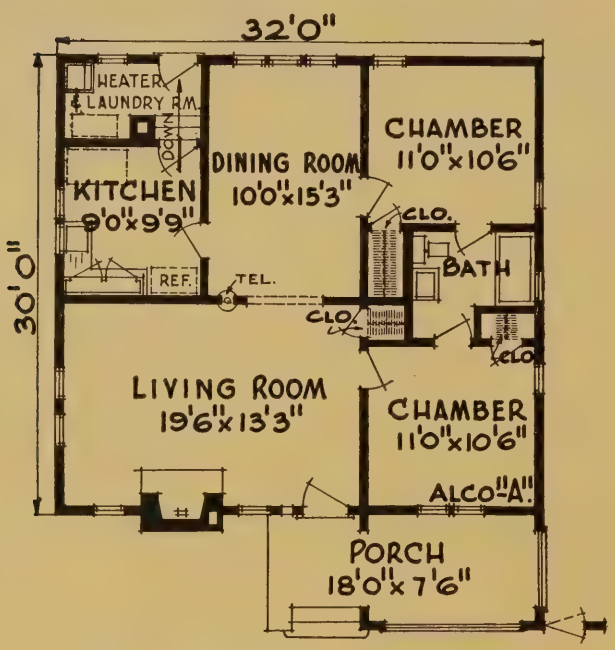
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALCO"

32 Ft. Wide x 30 Ft. Deep



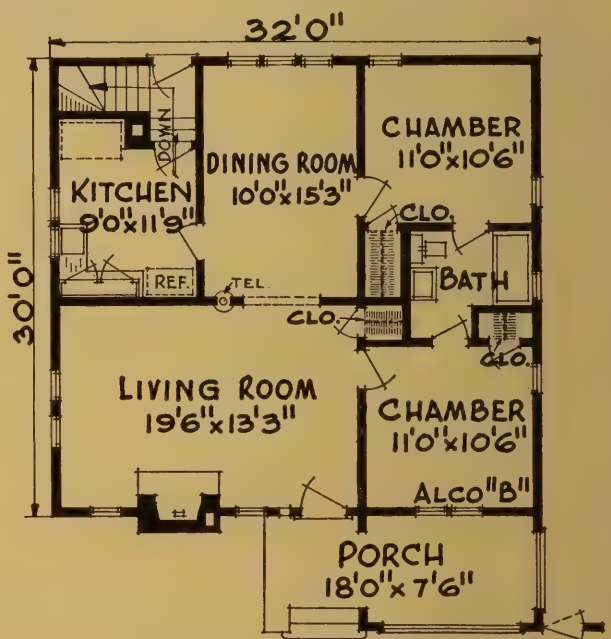
PLAN "A"—WITHOUT BASEMENT

SIZES:

Extreme Width	37' 0"
Extreme Depth	39' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**..... **$20.00**

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



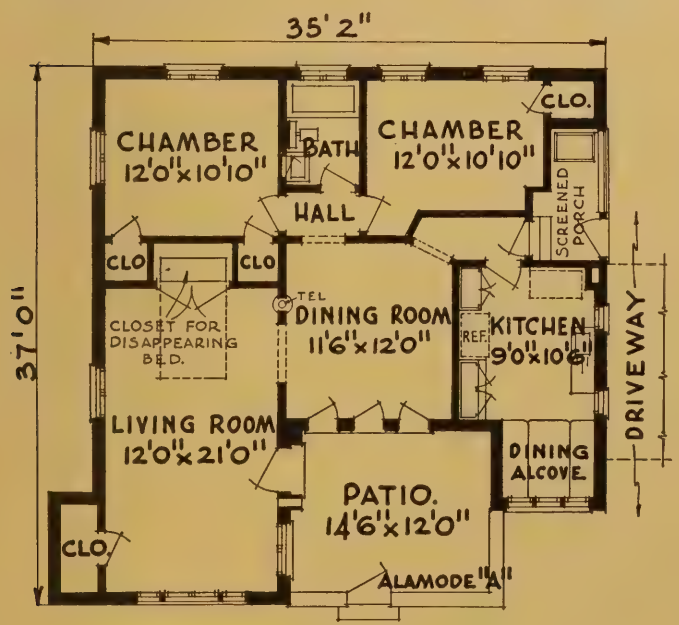
5 Rooms, Bath and Dining Alcove

"The ALAMODE"

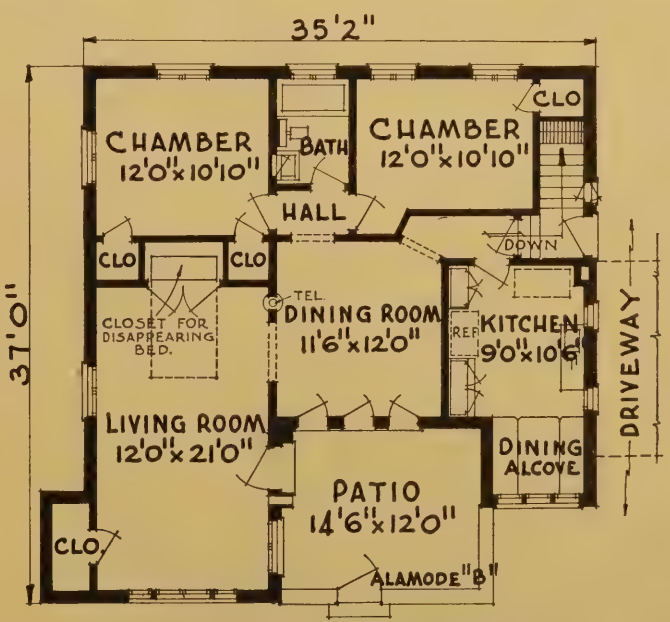
35 Ft. 2 In. Wide x 37 Ft. Deep

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	48' 6"
Extreme Depth	38' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



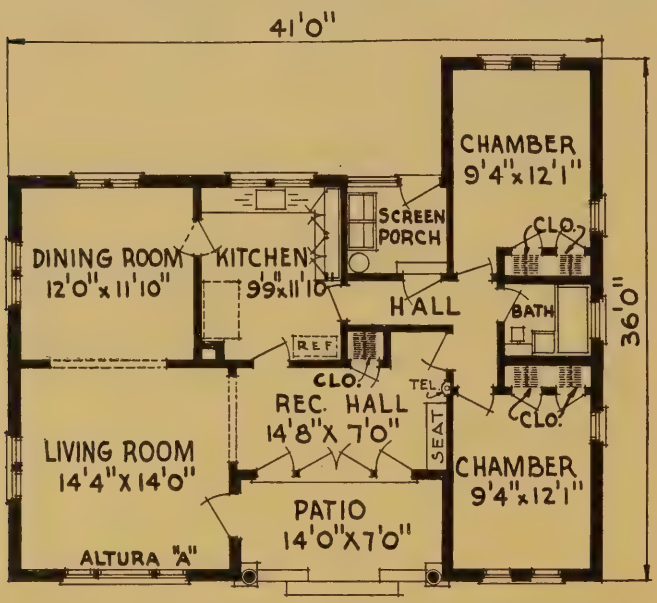
5 Rooms and Bath

"The ALTURA"

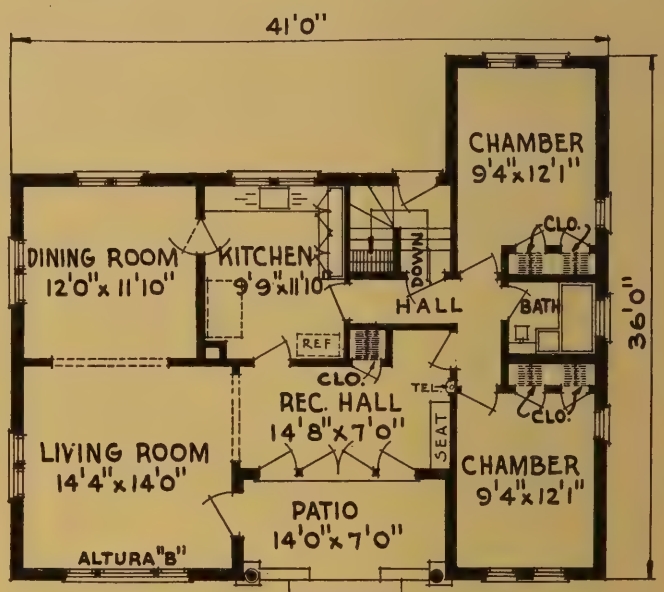
41 Ft. Wide x 36 Ft. Deep

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

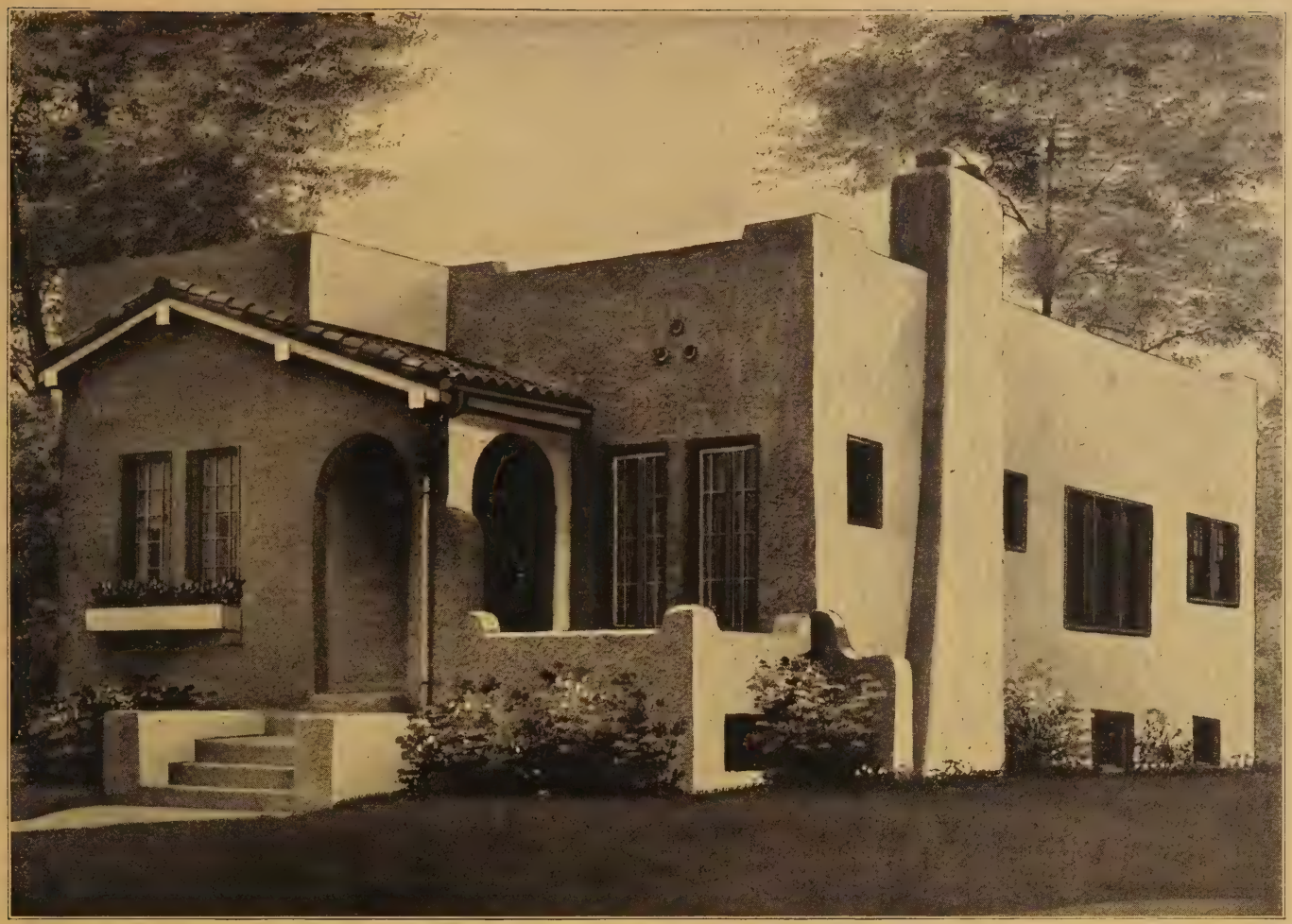
Extreme Width	43' 0"
Extreme Depth	38' 0"
Living Room Ceiling	11' 0"
Main Floor Ceiling (Balance)	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

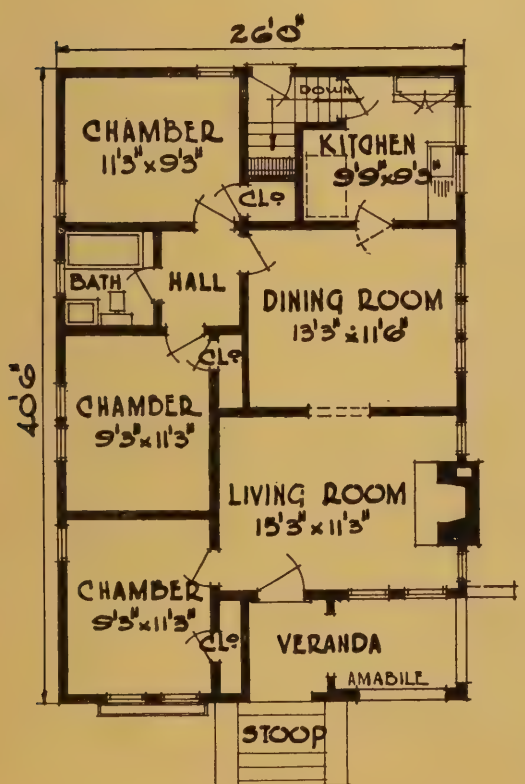
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

"The AMABILE"

26 Ft. Wide x 40 Ft. 6 In. Deep



AN ITALIAN bungalow of richness and color. The architect's taste is revealed in the tile roofed porch, and small open veranda.

A careful utilization of space has made three chambers possible. A home for those wishing something different.

SIZES:

Extreme Width	29' 0"
Extreme Depth	46' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

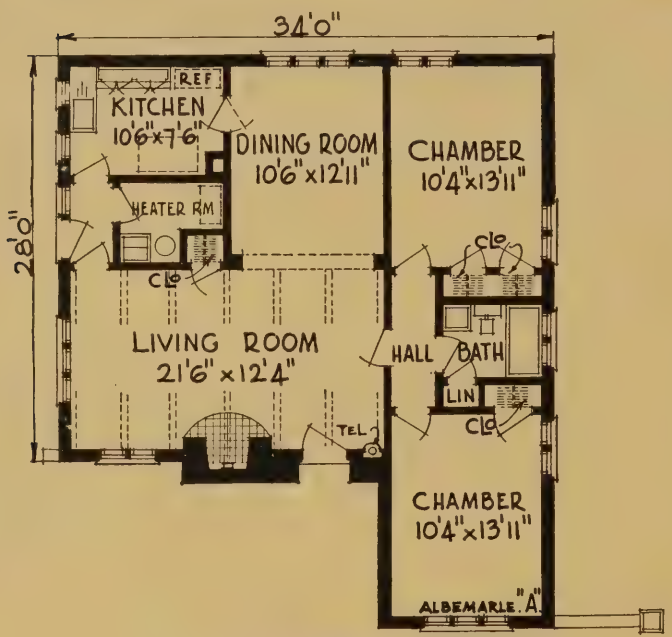
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALBEMARLE"

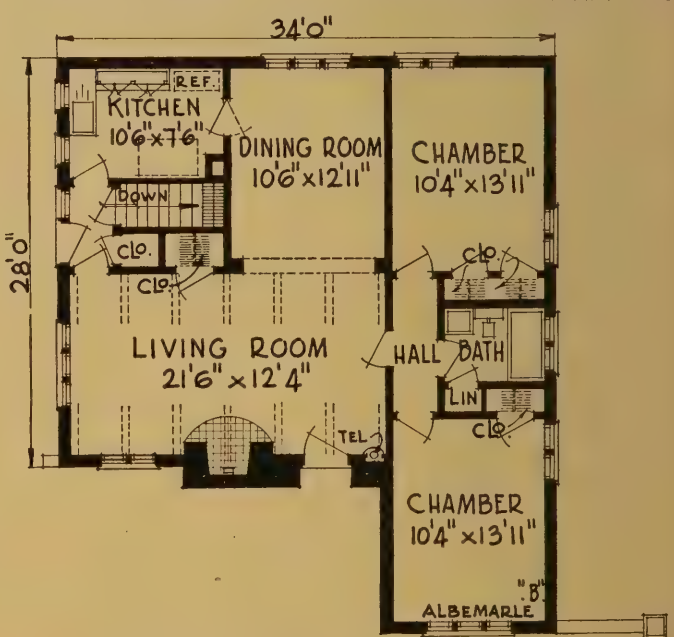
34 Ft. Wide x 39 Ft. 6 In. Deep



PLAN "A"—WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	42' 6"
Extreme Depth	41' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

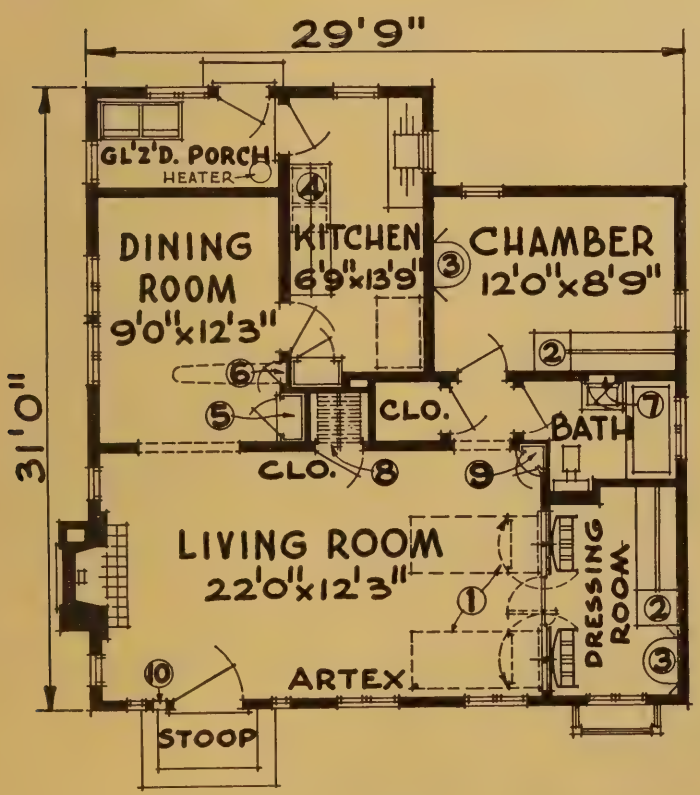
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Dressing Room

"The ARTEX"

29 Ft. 9 In. Wide x 31 Ft. Deep



A BEAUTIFUL four room bungalow with five room efficiency. Disappearing twin beds in the living room give this home an additional room. All work on one floor and no basement to bother with. A home with every room equipped with modern space saving devices. Note the glazed rear porch.

KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Bed"
2—"Dressing Cabinet"
3—"Dressing Table"
4—"Combination Kitchen Cabinet and Refrigerator"
5—"China Cabinet"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
8—"Adjustable Clothes Hangers"
9—"Telephone Cabinet"
10—"Built-in Mail Box"

SIZES:

Extreme Width	32' 3"
Extreme Depth	36' 0"
Main Floor Ceiling	9' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

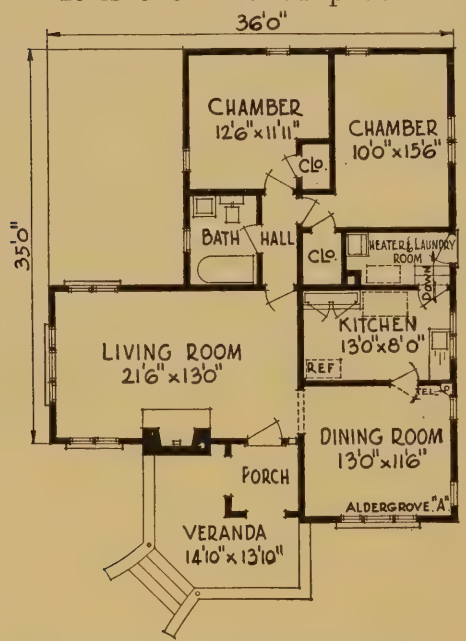


5 Rooms and Bath

"The ALDERGROVE"

34 Ft. Wide x 42 Ft. Deep

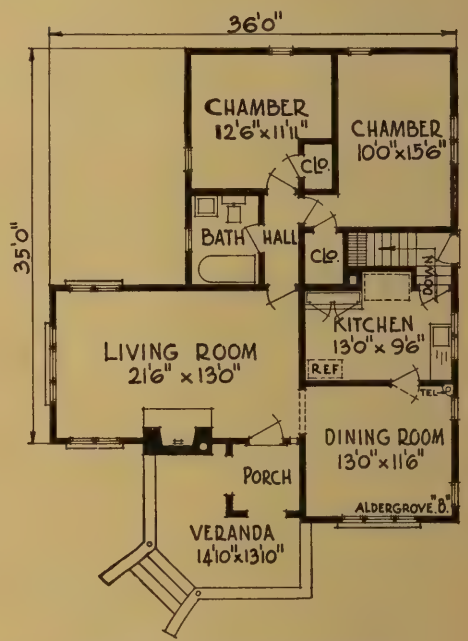
THE "Aldergrove" stands apart in its singular beauty. It is the finished proof of the architects imagination and taste. For proof of his superb efficiency one has only to look at the floor plan. It is a model of comfort and economy.



PLAN "A"—WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	38' 0"
Extreme Depth	53' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



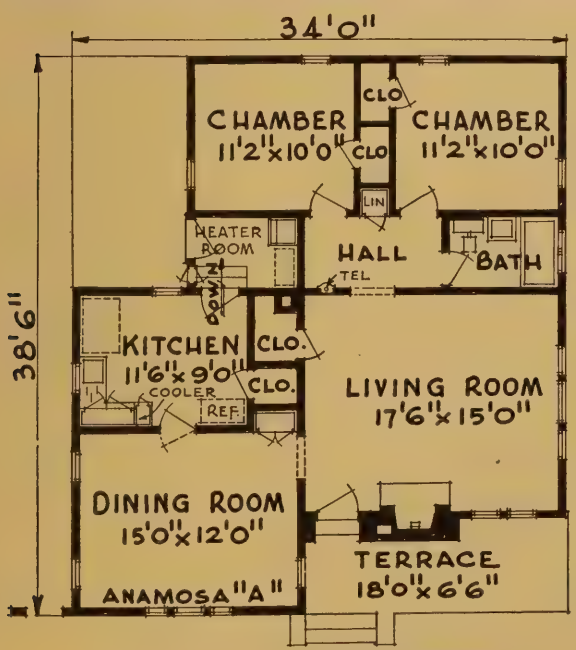
5 Rooms and Bath

"The ANAMOSA"

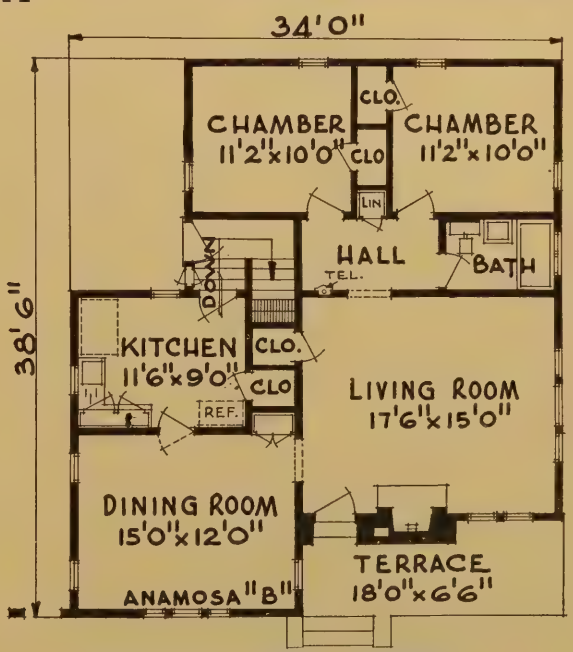
34 Ft. Wide x 38 Ft. 6 In. Deep

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

Extreme Width	39' 6"
Extreme Depth	41' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

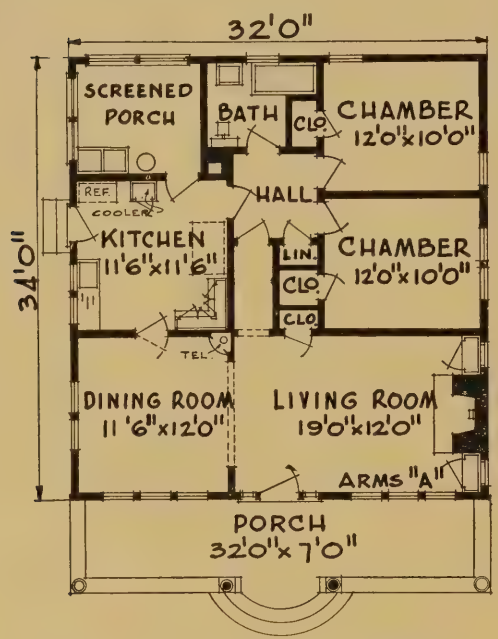


5 Rooms and Bath

"The ARMS"

32 Ft. Wide x 34 Ft. Deep

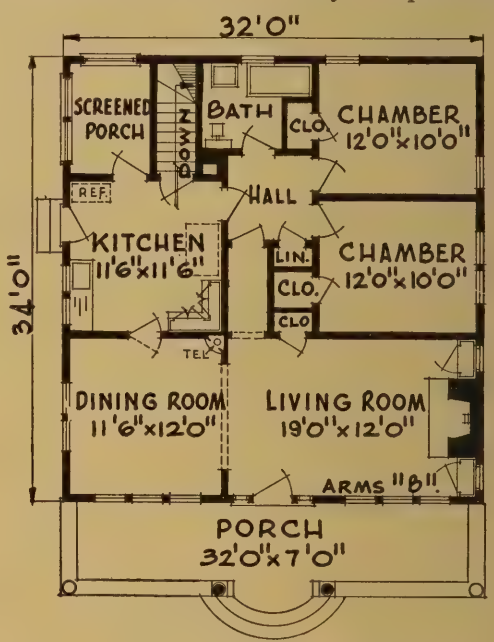
BEAUTY and distinction on the outside and comfort and attractiveness on the inside. When you find out how inexpensive it is to build you will want to know more. Study the picture and floor plan for yourself and be thoroughly satisfied.



PLAN "A"—WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	34' 6"
Extreme Depth	45' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

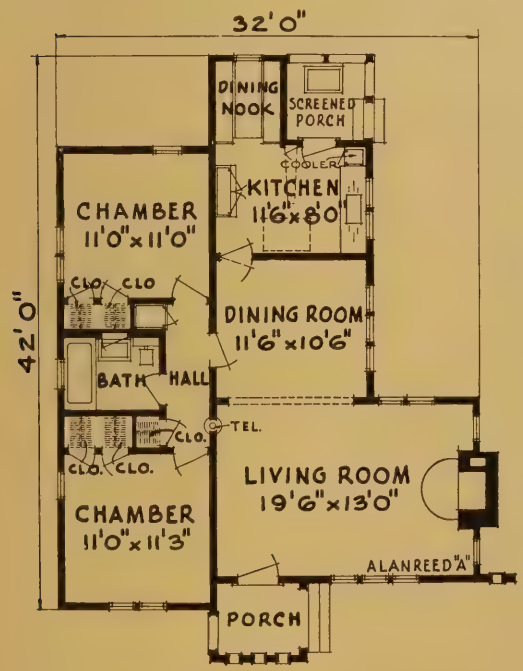


5 Rooms, Bath and Dining Nook

"The ALANREED"

32 Ft. Wide x 42 Ft. Deep

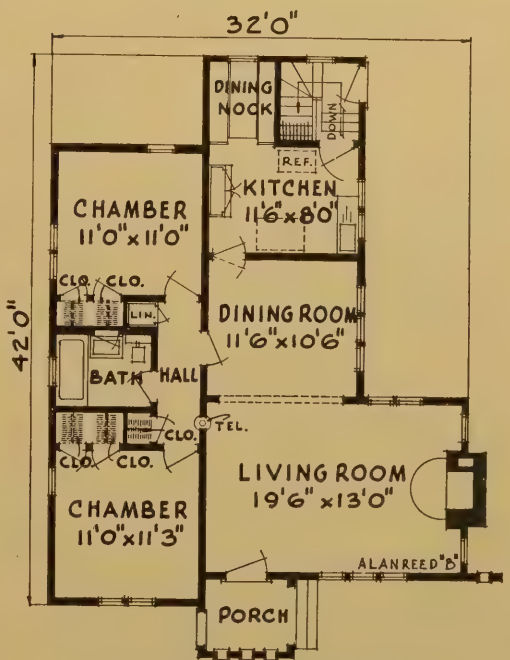
POSSESSING an antique beauty and containing all modern efficiencies the "Allanreed" is a delightful home to own. In a way it is the epitome of small home architecture for it has all the advantages modern invention has made possible and presents a beauty that only the past can give.



PLAN "A"—WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	35' 6"
Extreme Depth	43' 0"
Living Room Ceiling	11' 0"
Main Floor Ceiling (Balance)	8' 4"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



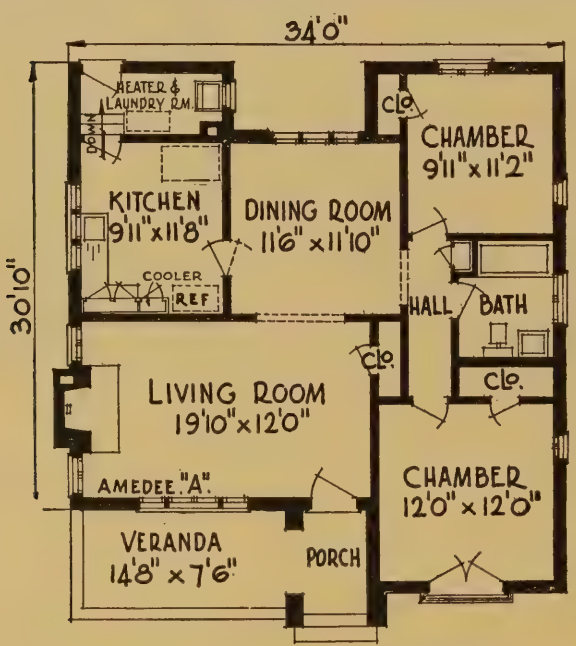
5 Rooms and Bath

"The AMEDEE"

34 Ft. Wide x 30 Ft. 10 In. Deep

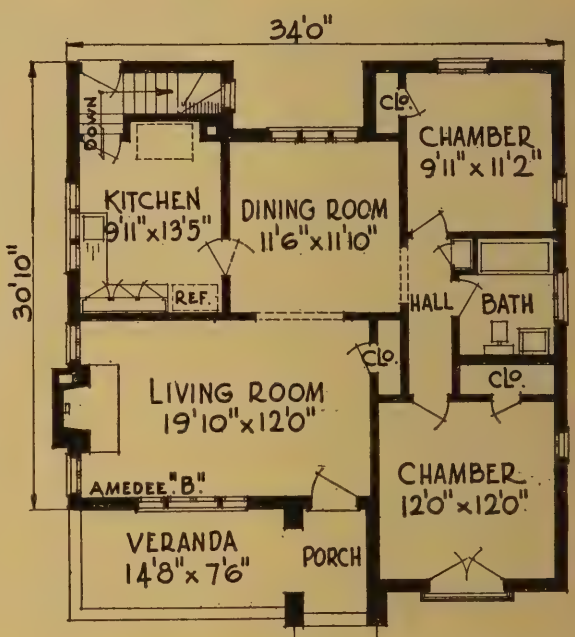
IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT

Walls of hollow tile and roof of Spanish tile. Plans give complete details.



PLAN "B"—WITH BASEMENT

SIZES:

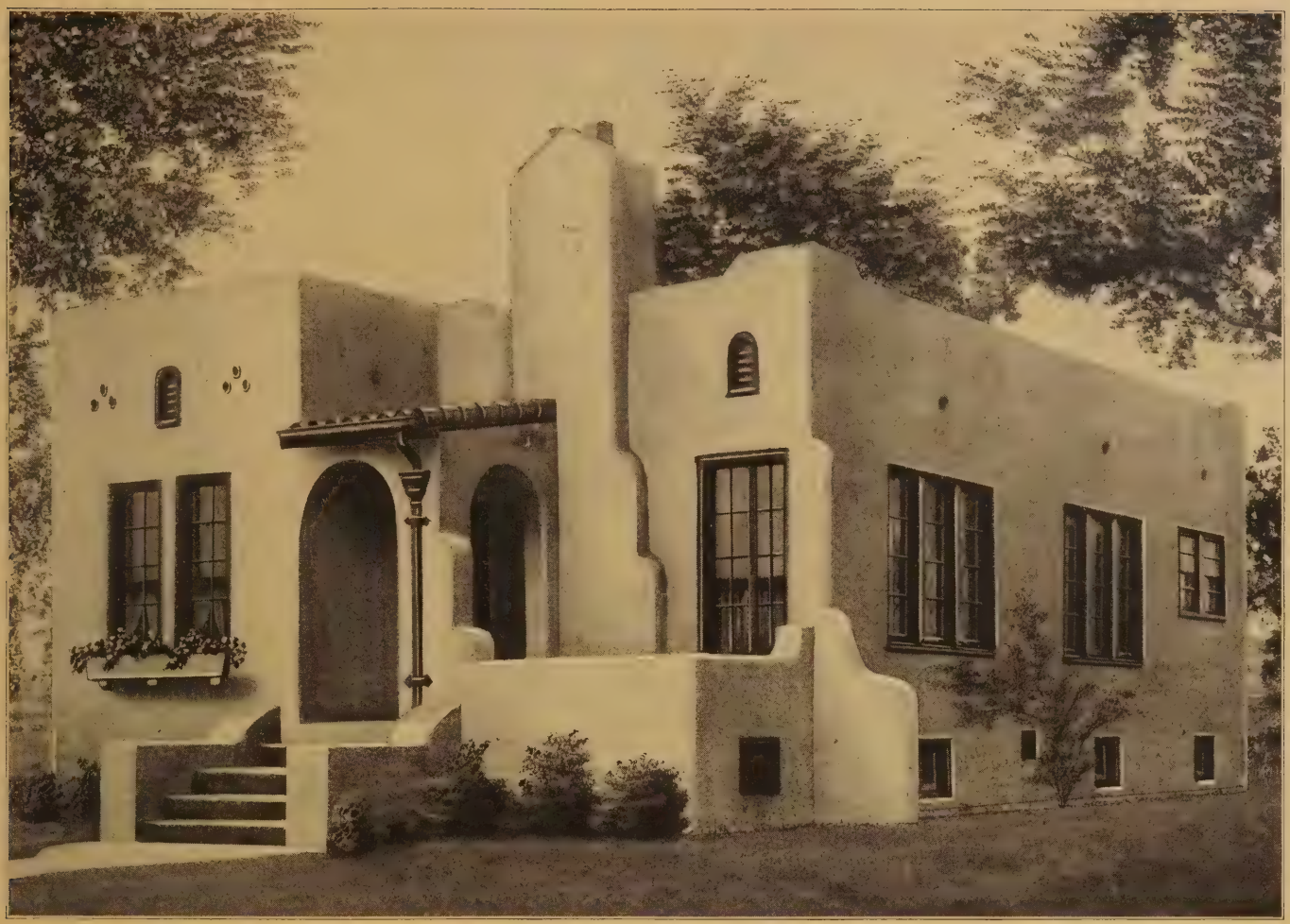
Extreme Width	36' 0"
Extreme Depth	40' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

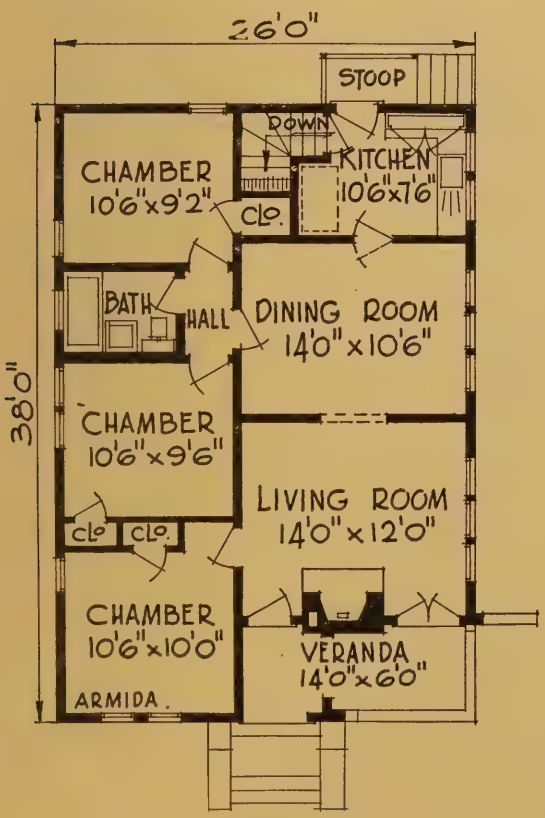
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

"The ARMIDA"

26 Ft. Wide x 38 Ft. Deep



THE picture can but suggest the actual beauty of the "Armida." One must see it in colors, framed by the landscape, before he can get the full affect. The big, roomy fireplace makes the "Armida" a winter home as well as a summer paradise. The room arrangement insures comfort, and saves steps for the housewife.

Wall board with lath fastened thereto is used for sheathing upon which the stucco is directly applied. Plans show details.

SIZES:

Extreme Width	30' 0"
Extreme Depth	46' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

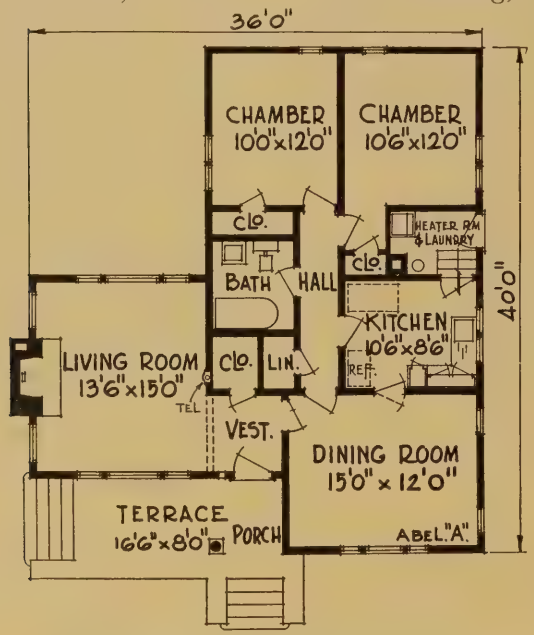


5 Rooms and Bath

"The ABEL"

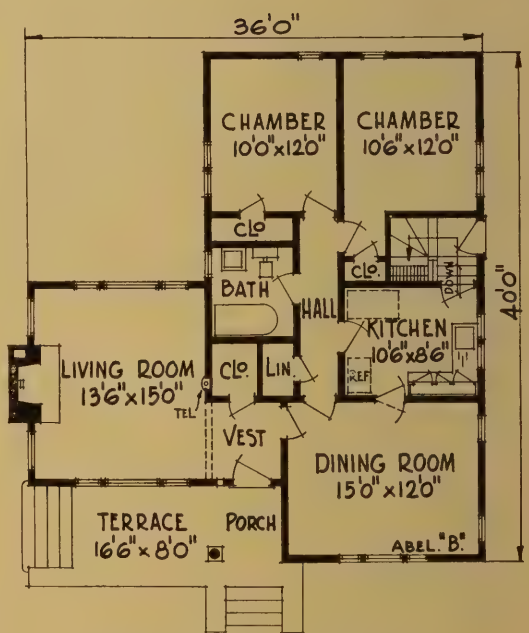
36 Ft. Wide x 40 Ft. Deep

SELECTING a home is an involved process. The home-seeker wants an attractive exterior and a comfortable and convenient interior. He wants it at a reasonable price. But above all, he desires a subtle something, something that will inspire domestic happiness and be an unfailing source of joy. If you will study the picture and floor plan of the "Abel" you may find this "something."



PLAN "A"—WITHOUT BASEMENT

IMPORTANT
When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	38' 6"
Extreme Depth	47' 0"
Living Room Ceiling	9' 6"
Main Floor Ceiling (Balance)	8' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

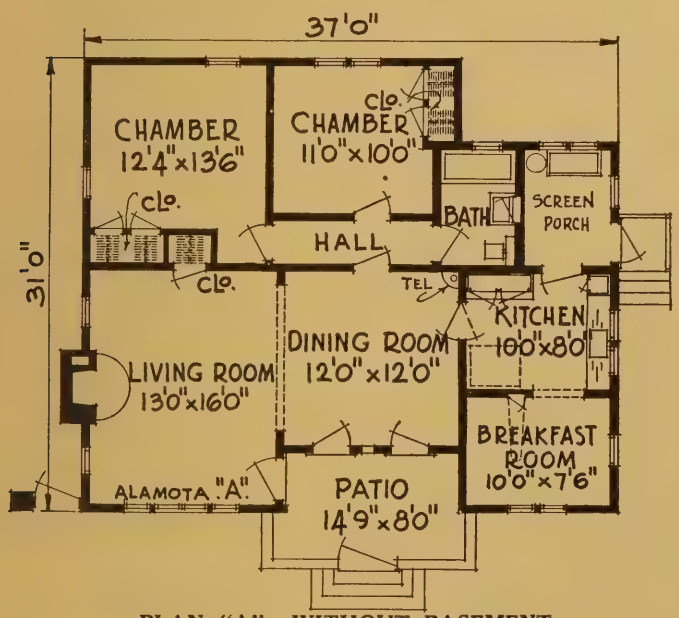
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Breakfast Room

"The ALAMOTA"

37 Ft. Wide x 31 Ft. Deep



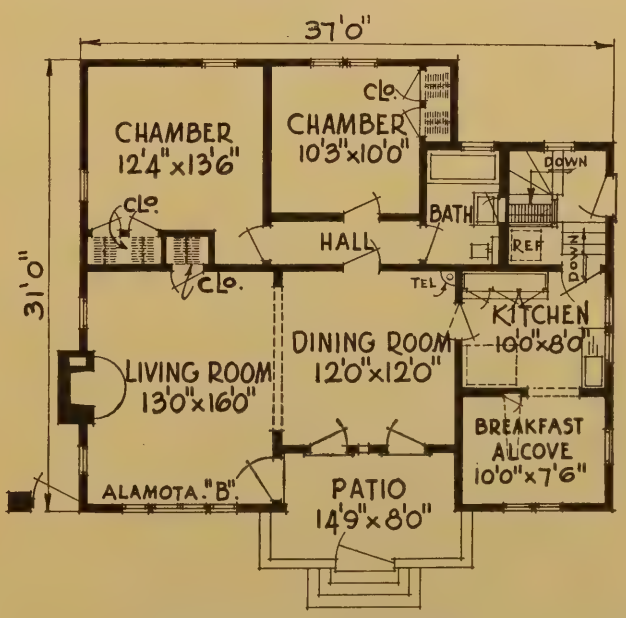
PLAN "A"—WITHOUT BASEMENT

SIZES:

Extreme Width—Plan "A"	45′ 4″
Extreme Width—Plan "B"	41′ 10″
Extreme Depth	38′ 4″
Living Room Ceiling	10′ 6″
Main Floor Ceiling (Balance)	8′ 6″
Basement Ceiling—Plan "B"	7′ 0″

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

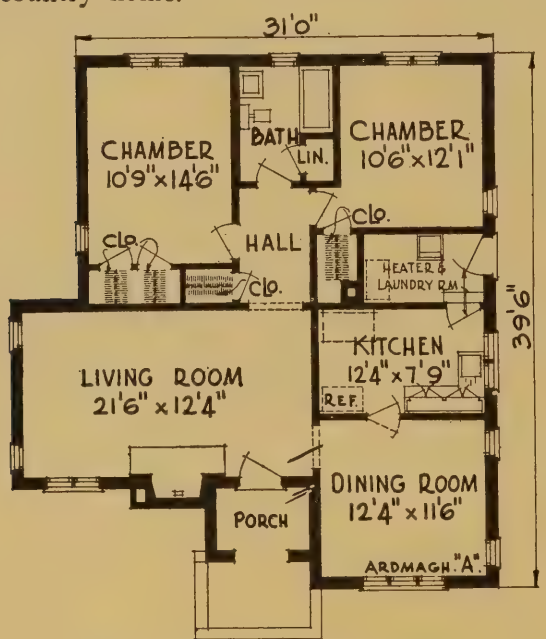


5 Rooms and Bath

"The ARDMAGH"

36 Ft. Wide x 39 Ft. 6 In. Deep

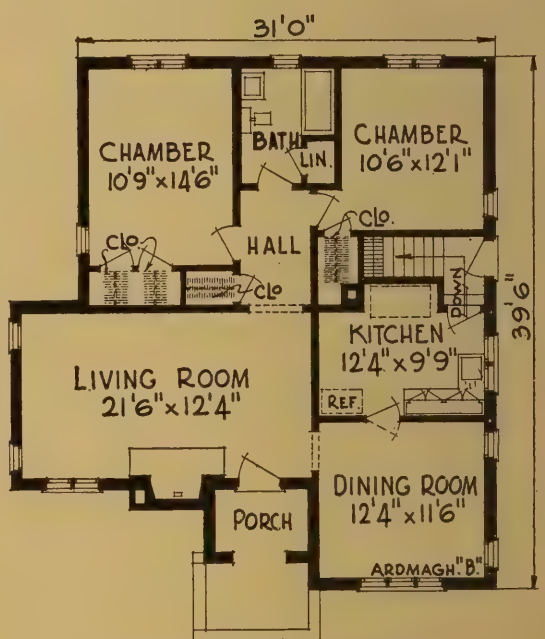
AN effective design carefully created of stuccoed hollow tile walls and random laid shingles. The "Ardmagh" provides the conveniences of an apartment with the advantages of a country home.



PLAN "A"—WITHOUT BASEMENT

Important

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	38' 0"
Extreme Depth	44' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

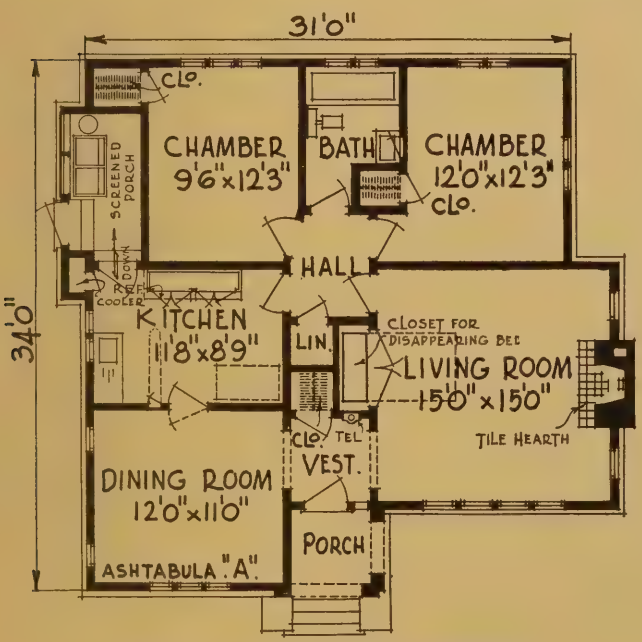
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ASHTABULA"

31 Ft. Wide x 34 Ft. Deep



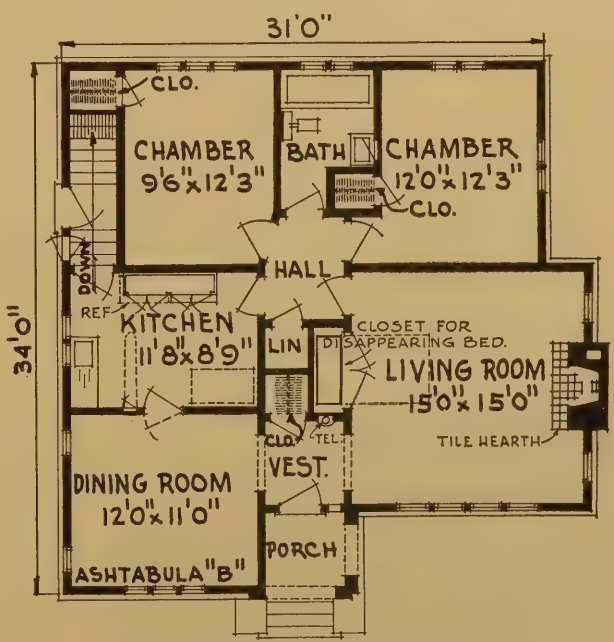
PLAN "A"—WITHOUT BASEMENT

SIZES:

Extreme Width	37' 0"
Extreme Depth	39' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.

Chicago.—Rochester.—Detroit.—New York.



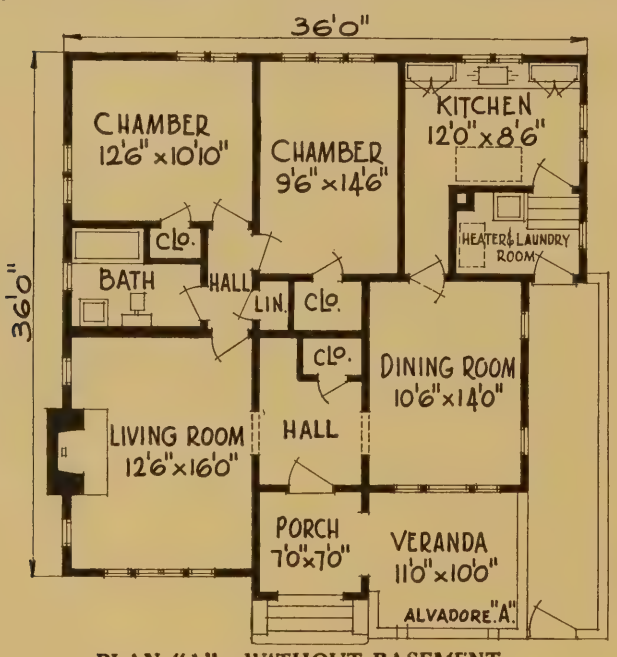
5 Rooms and Bath

"The ALVADORE"

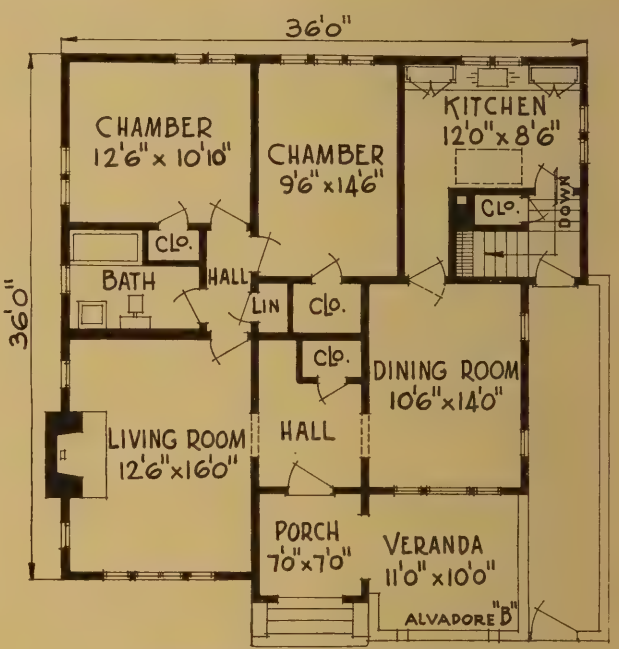
36 Ft. Wide x 36 Ft. Deep

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	37' 6"
Extreme Depth	40' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

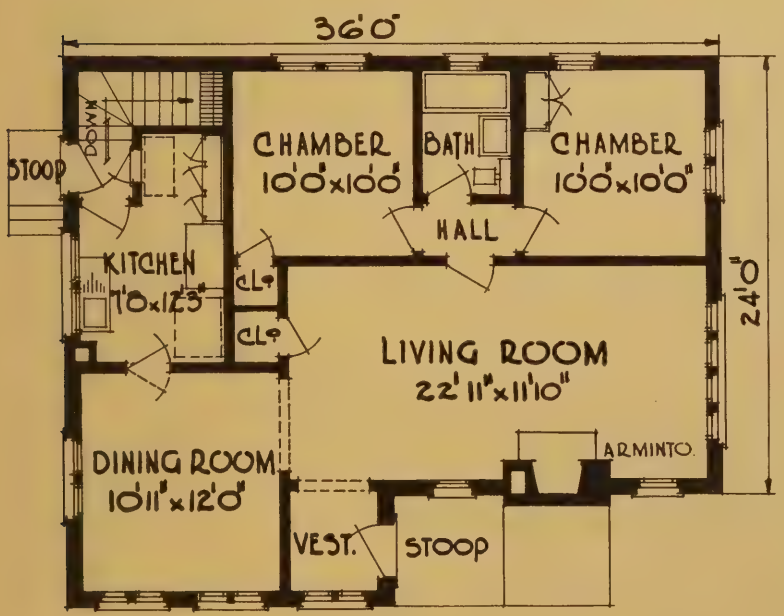
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ARMINTO"

36 Ft. Wide x 29 Ft. 10 In. Deep



A JEWEL in the Spanish style. The combination of the tile roof, stucco, spiral pilasters, and Gothic windows is captivating.

The small hall between the chambers and living room sets each room off by itself. Outward beauty and inward comfort are the gifts of the "Arminto."

These Homes are Modern and Practical and Have Proven So in Actual Construction.

SIZES:

Extreme Width	39' 6"
Extreme Depth	31' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

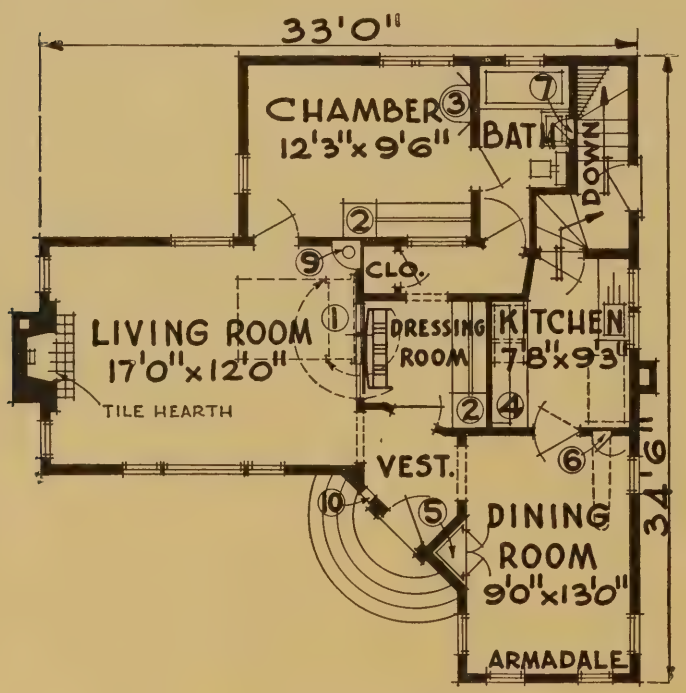


4 Rooms, Bath and Dressing Room

"The ARMADALE"

33 Ft. Wide x 34 Ft. 6 In. Deep

MOTTLED shingle thatched roof, stucco walls, and a few face brick around the entrance are carefully blended along simple lines to produce this effecttive and appealing bungalow. Only four rooms but equal to five. At night the living room is converted into a bed room. Built-in equipment as shown on this plan, means more available space at no additional cost and considerable labor saved for the housekeeper.



KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Bed"
2—"Dressing Cabinet"
3—"Dressing Table"
4—"Combination Kitchen Cabinet" "and Refrigerator"
5—"China Cabinet"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
9—"Telephone Cabinet"
10—"Built-in Mail Box"

SIZES:

Extreme Width	35' 9"
Extreme Depth	36' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

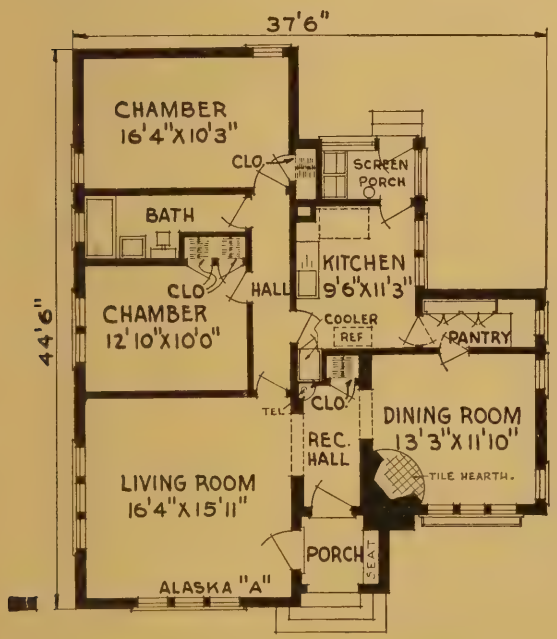
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALASKA"

37 Ft. 6 In. Wide x 44 Ft. 6 In. Deep



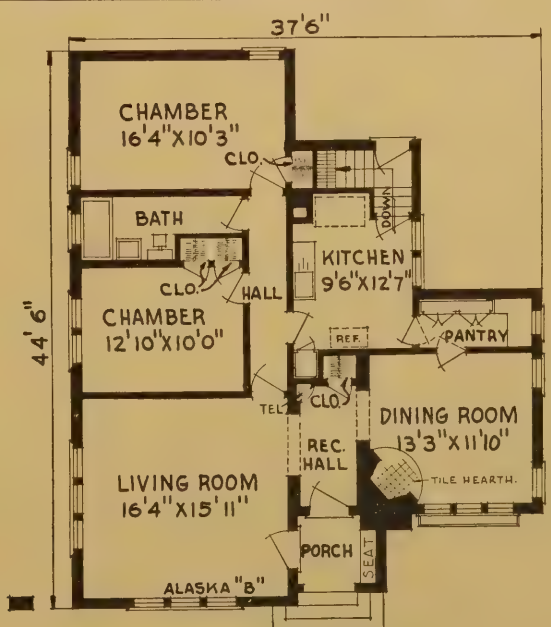
PLAN "A"—WITHOUT BASEMENT

SIZES:

Extreme Width	45' 0"
Extreme Depth	47' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



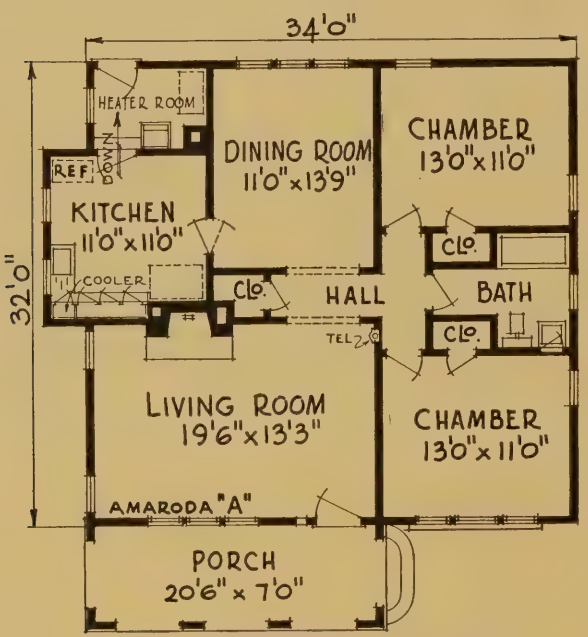
5 Rooms and Bath

"The AMARODA"

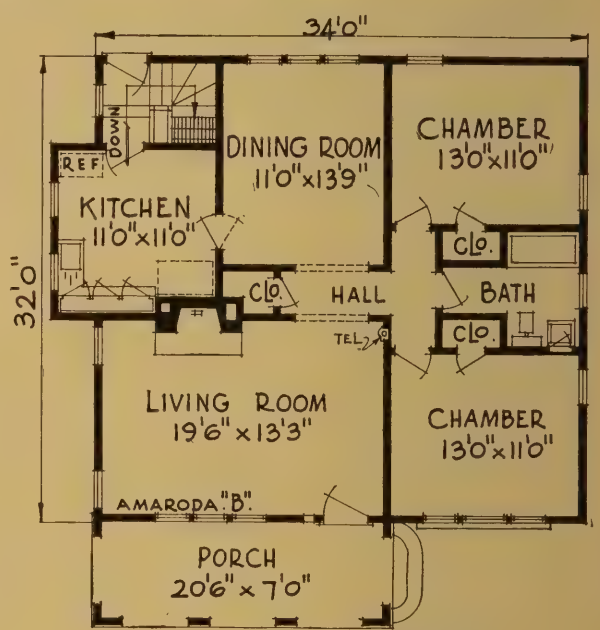
34 Ft. Wide x 32 Ft. Deep

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	37' 0"
Extreme Depth	39' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

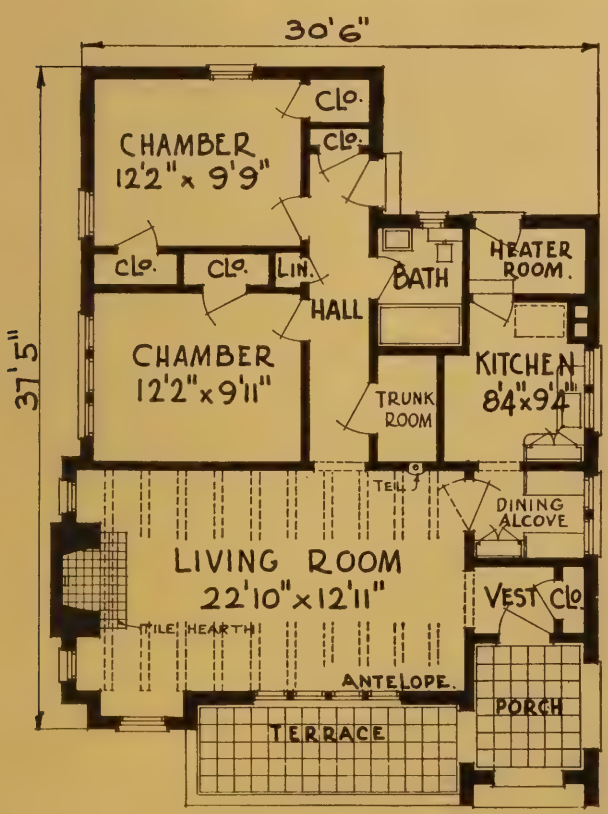
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Dining Alcove

"The ANTELOPE"

30 Ft. 6 In. Wide x 37 Ft. 5 In. Deep



LIKE a finely cut gem the "Antelope" stands out in its dazzling beauty. The architect shows the rare qualities of taste and personality for the home is fairly alive with personality and every detail is in perfect taste. The living room is a masterpiece with its high ceiling and exposed ceiling beams. A more model floor plan of a bungalow would be hard to find. This home is planned without a basement.

STUCCO ON HOLLOW TILE WITH FACE BRICK TRIM AND ASBESTOS ROOFING. PLANS GIVE CORRECT CONSTRUCTION DETAILS.

SIZES:

Extreme Width	**33' 0"**
Extreme Depth	**43' 6"**
Main Floor Ceiling	**9' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

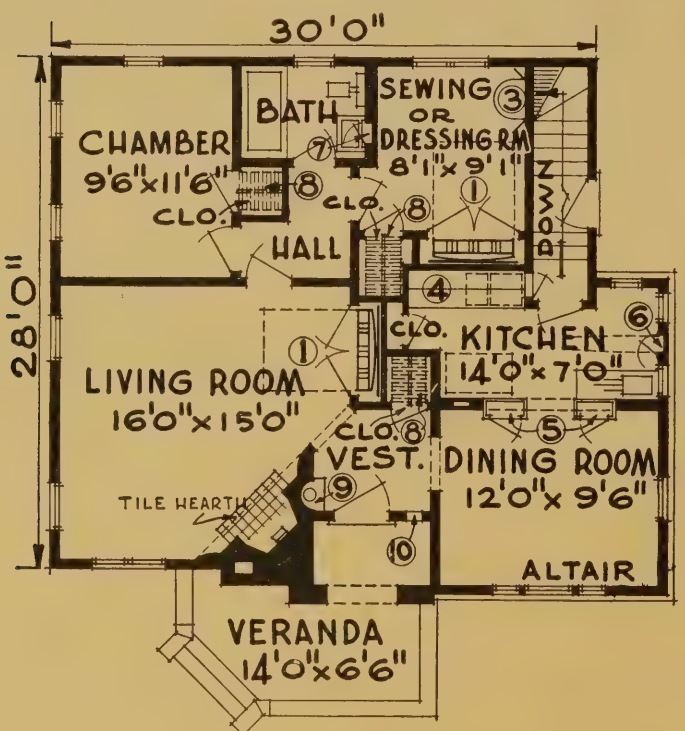


4 Rooms, Bath and Sewing Room

"The ALTAIR"

34 Ft. 4 In. Wide x 29 Ft. 9 In. Deep

STUCCO, face brick, shingle thatched roof, and half timbered gables have all been carefully blended to produce this beautiful bungalow. Only five rooms yet it offers seven room efficiency. The use of a full size disappearing bed in the living room transforms this into another bed room at night. Likewise the same arrangement is provided for the sewing room. Space saving devices in the kitchen make it a very efficient and compact work room.



KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Beds"
3—"Dressing Table"
4—"Combination Kitchen Cabinet and Refrigerator"
5—"China Cabinets"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
8—"Adjustable Clothes Hangers"
9—"Telephone Cabinet"
10—"Built-in Mail Box"

SIZES:

Extreme Width	35' 9"
Extreme Depth	37' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

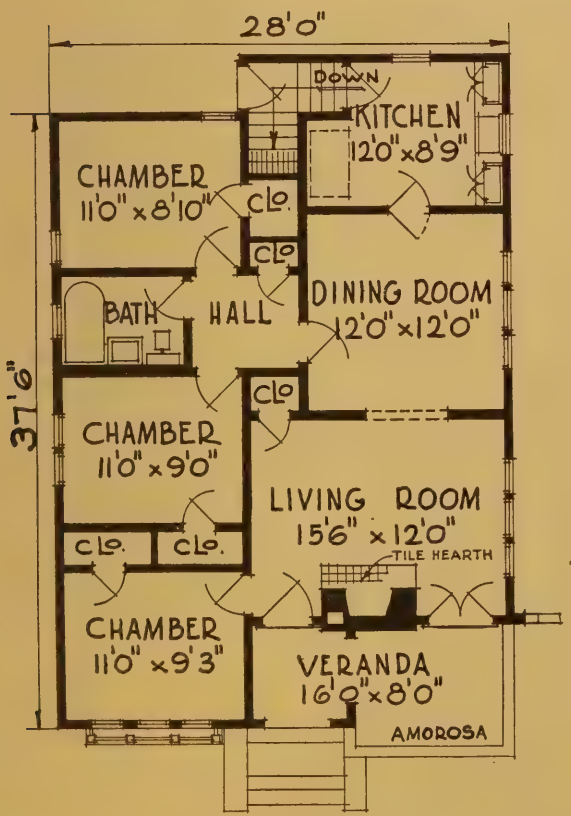
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

"The AMOROSA"

28 Ft. Wide x 41 Ft. Deep



REVEALING all the charm of Spanish Architecture. The tile roof over the entrance, the arched windows, the projecting beams are but a few of the details which go to make up this charm. A concise, well disposed floor plan gives the desired living comfort.

FULL DETAILS SHOWING CONSTRUCTION OF STUCCO AND METAL LATH FOR EXTERIOR WALLS ARE SHOWN ON BLUE PRINT PLANS.

SIZES:

Extreme Width	31′ 0″
Extreme Depth	46′ 0″
Main Floor Ceiling	9′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items .....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms** .....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

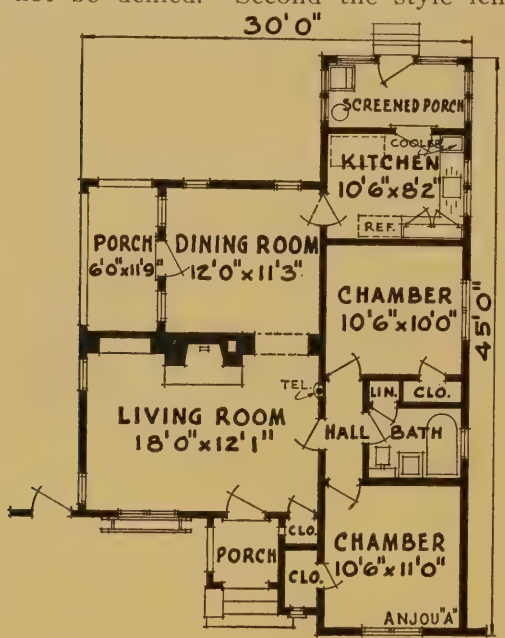


5 Rooms and Bath

"The ANJOU"

30 Ft. Wide x 45 Ft. Deep

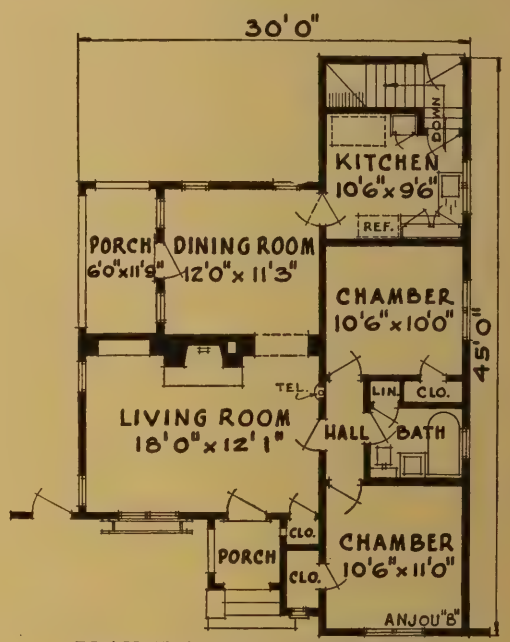
THE new popularity of the Spanish style is not without cause. First, there is the rich outward beauty that cannot be denied. Second the style lends itself to convenient room arrangement. And last, but not least, the outside walls are covered with cane fibre sheathing on which the stucco is directly applied thereby reducing construction costs.



PLAN "A"—WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	37' 0"
Extreme Depth—Plan "A"	47' 6"
Extreme Depth—Plan "B"	45' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



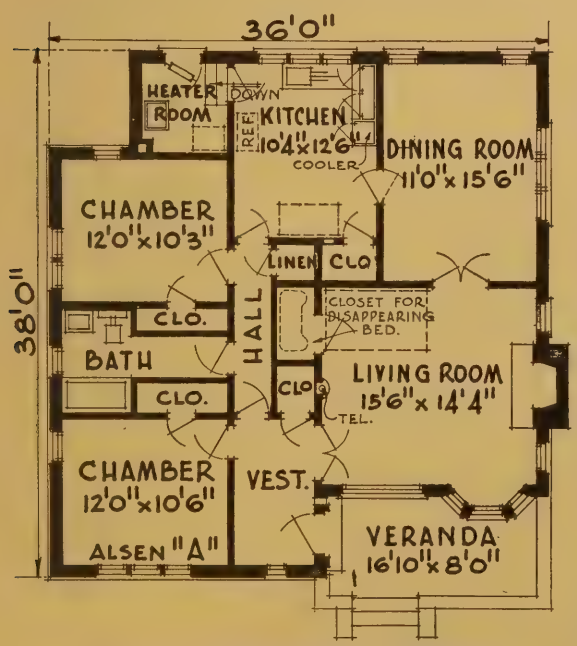
5 Rooms and Bath

"The ALSEN"

36 Ft. Wide x 38 Ft. Deep

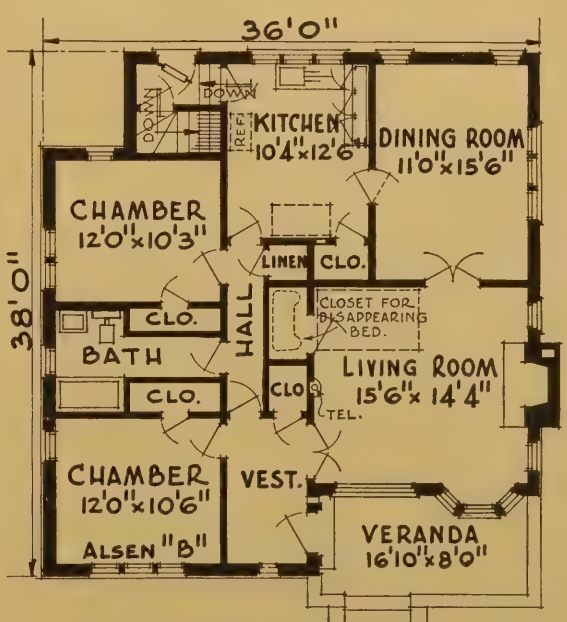
IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT

The Disappearing Bed Converts the Living Room into a Chamber at Night



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	38' 6"
Extreme Depth	43' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.

Chicago.—Rochester.—Detroit.—New York.

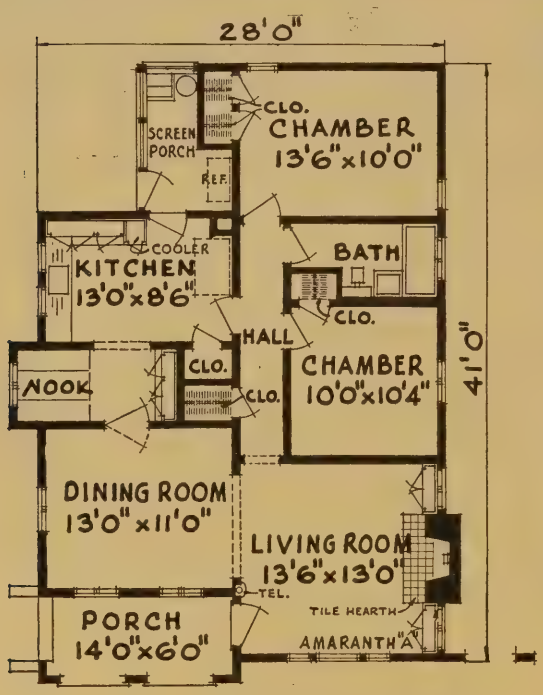


5 Rooms, Bath and Dining Nook

"The AMARANTH"

28 Ft. Wide x 41 Ft. Deep

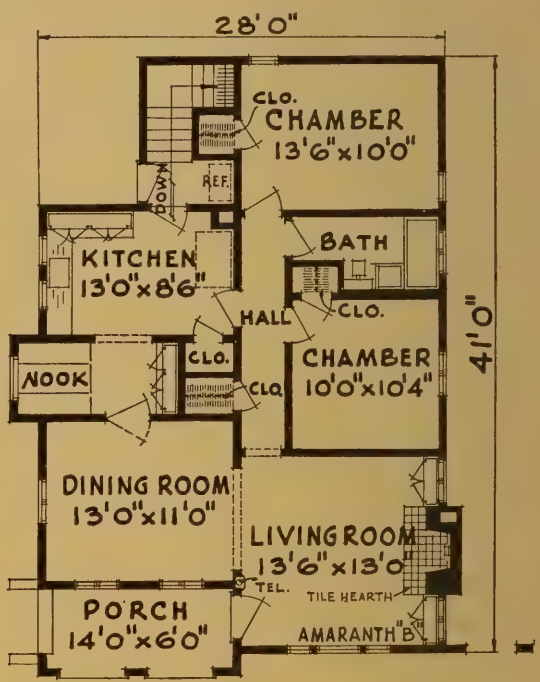
PRESENTING all the beauty of the Spanish style without any of its extravagances. The room arrangement shows the same taste and thoughtfulness.



PLAN "A"—WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	36' 6"
Extreme Depth	43' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



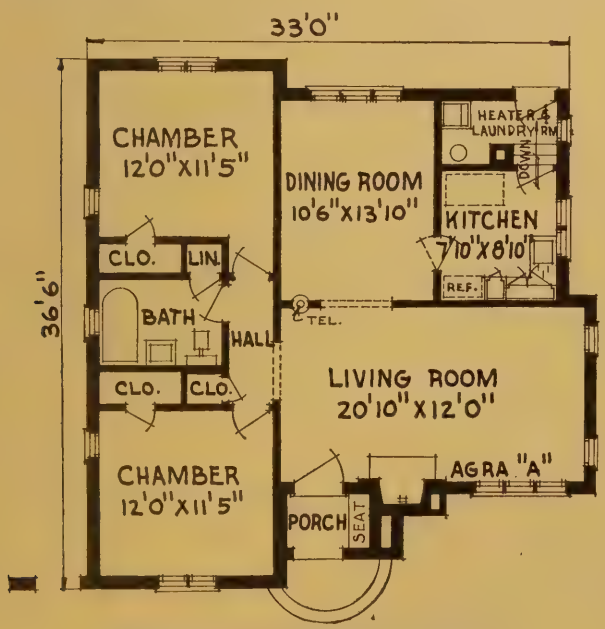
5 Rooms and Bath

"The AGRA"

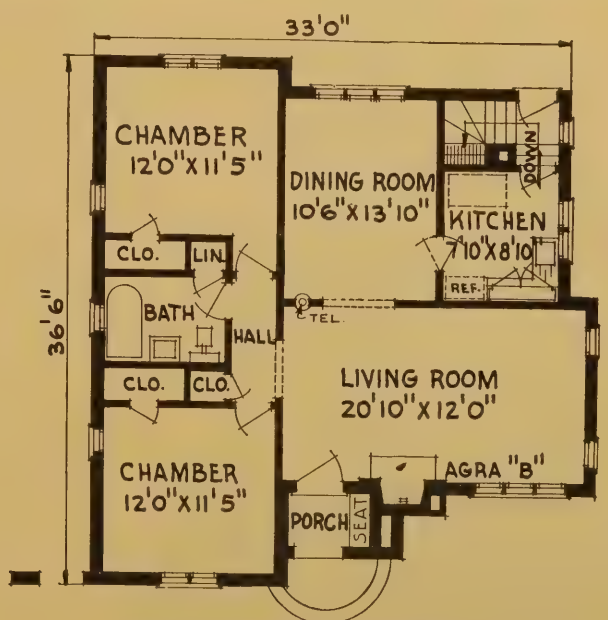
33 Ft. Wide x 36 Ft. 6 In. Deep

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	42' 0"
Extreme Depth	40' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

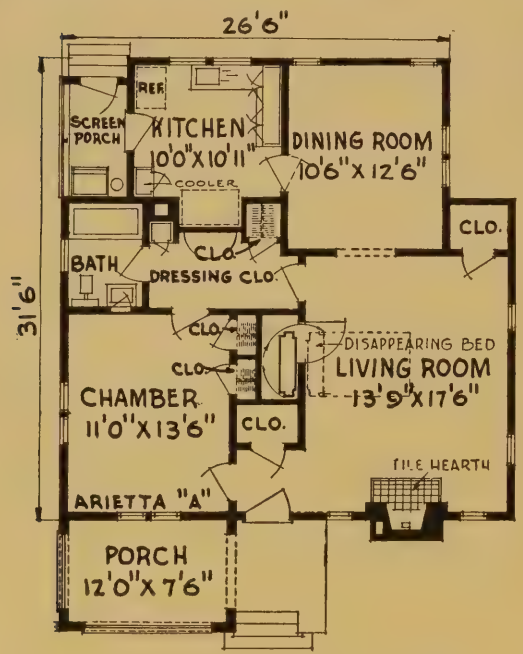


4 Rooms, Bath and Dressing Room

"The ARIETTA"

35 Ft. Wide x 31 Ft. 6 In. Deep

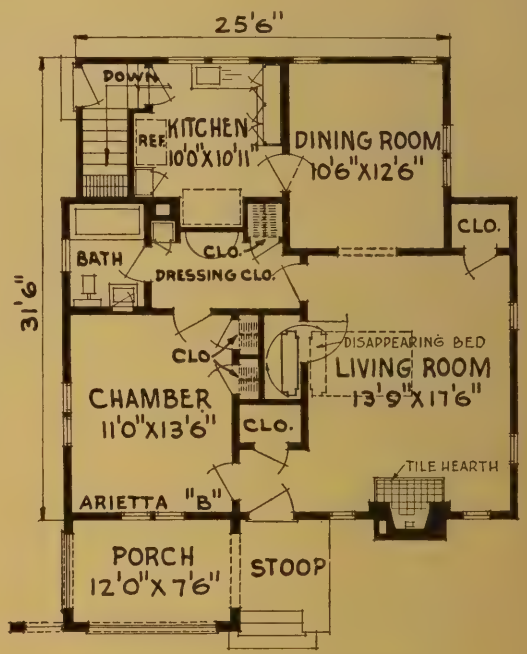
A MOST prominent feature of this home is the porch with gate at the left. Then there is the handsome chimney. The interior is designed for practical efficiency. Note the disappearing bed, space saving closets, kitchen equipment and dressing closet.



PLAN "A"—WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	38' 0"
Extreme Depth	42' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

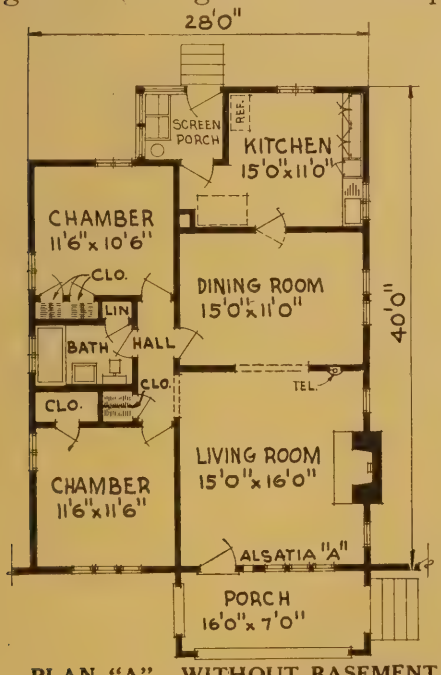


5 Rooms and Bath

"The ALSATIA"

28 Ft. Wide x 40 Ft. Deep

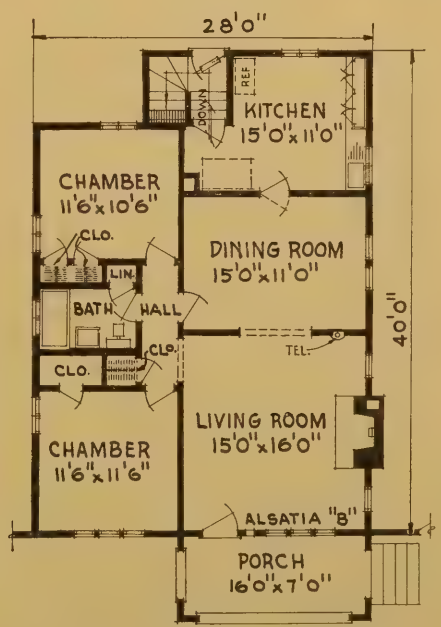
THE "Alsatia" is a pleasing bungalow, with its rich stucco surface and interesting lines. The driveway and arched gate is an ingenuous and happy idea. The rooms are large, compact and comfortable, making it a pleasant home to live in, as well.



PLAN "A"—WITHOUT BASEMENT

IMPORTANT

When ordering plans of this design state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

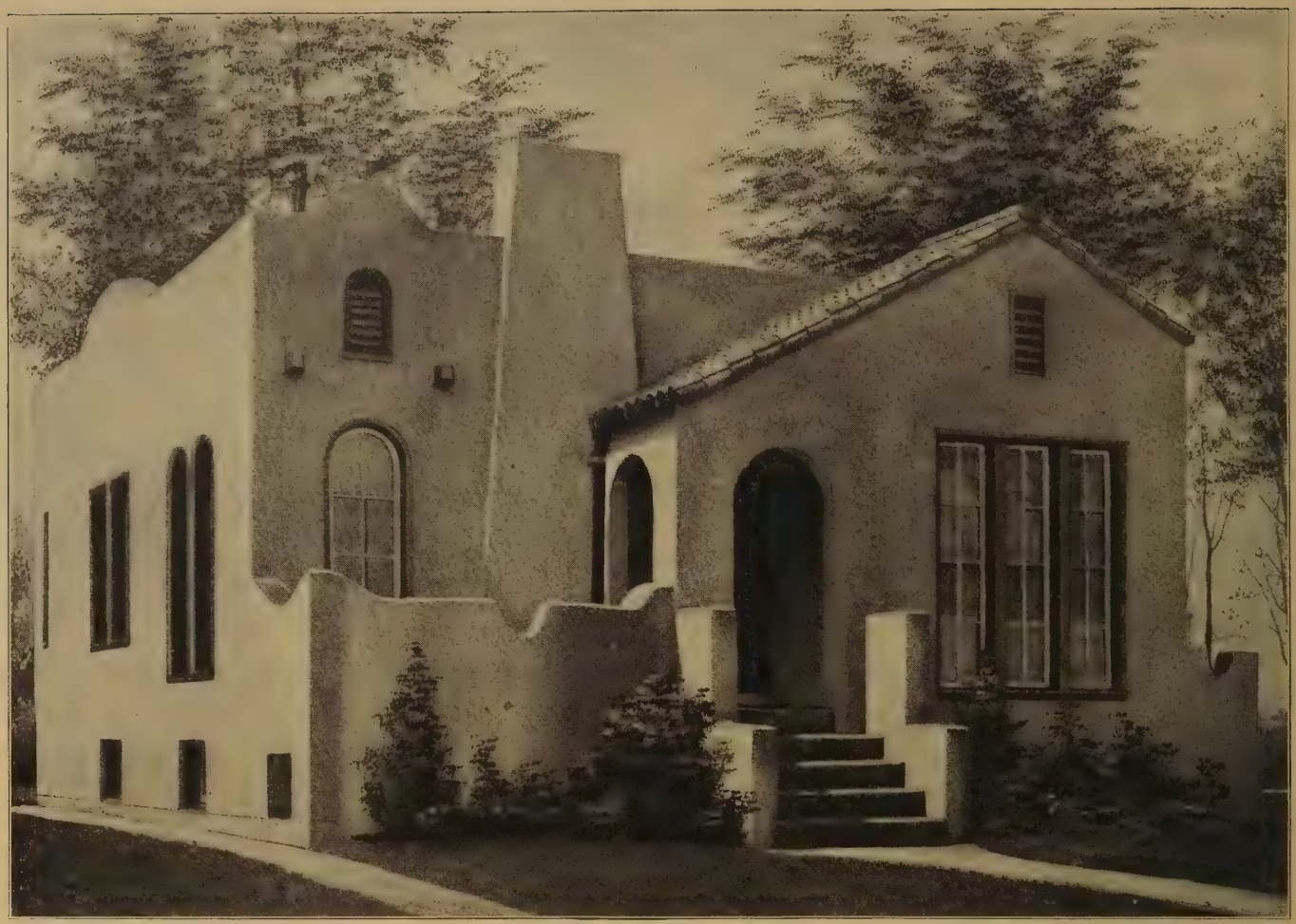
Extreme Width	52' 0"
Extreme Depth—Plan "A"	52' 6"
Extreme Depth—Plan "B"	48' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

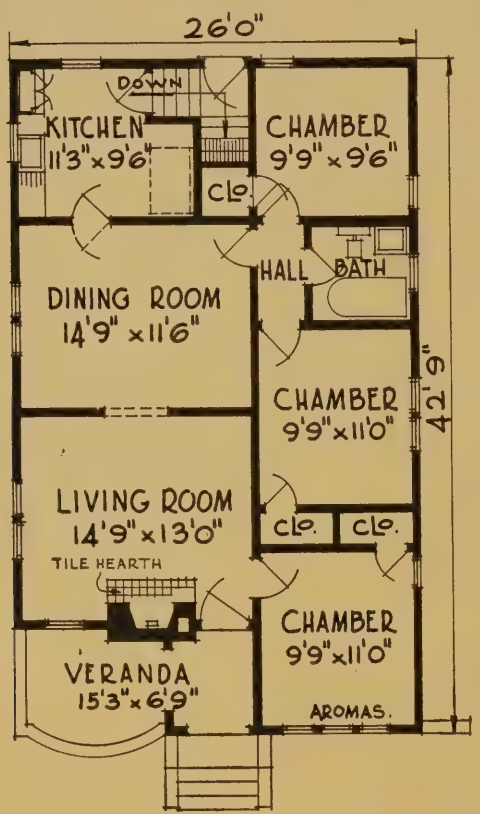
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

"The AROMAS"

26 Ft. Wide x 42 Ft. 9 In. Deep



TO see is to desire the "Aromas." All the art of the Spanish Style is embodied here. Arched windows, tile roof, artistic use of stucco are all present. Careful planning by the architect has utilized every inch of space, and the rooms are comfortably disposed.

All Dimensions Shown on the Plans of the Homes in this Book are to the Inside of the Plastered Wall.

SIZES:

Extreme Width	**29' 0"**
Extreme Depth	**47' 6"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications and Two (2) Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

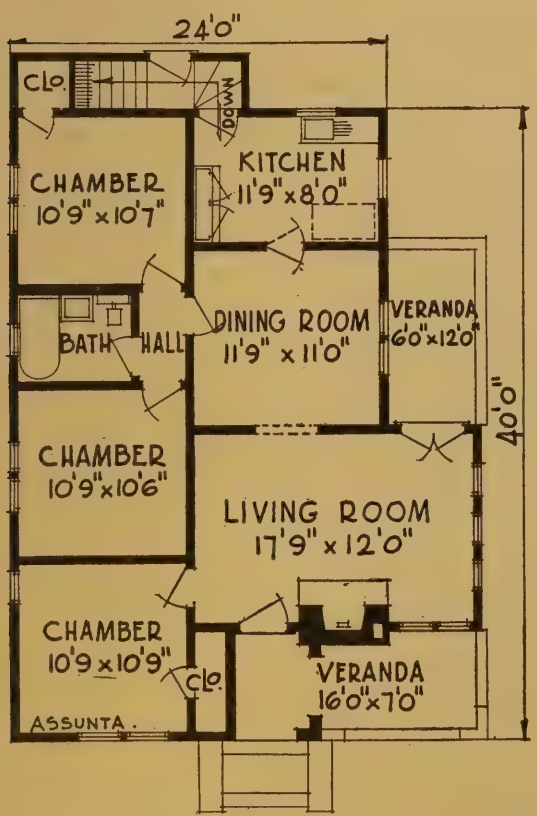
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

"The ASSUNTA"

30 Ft. Wide x 43 Ft. 6 In. Deep



THE graceful lines and the rich stucco body of the "Assunta" makes a perfect picture. Two verandas, front and back, three ample chambers, kitchen conveniences and a large fireplace are among the luxuries found. Then the "Assunta," as the plan shows, is exceedingly livable.

The plans of this design show how wall board lath sheathing is used to great advantage in reducing the cost of this well constructed home.

SIZES:

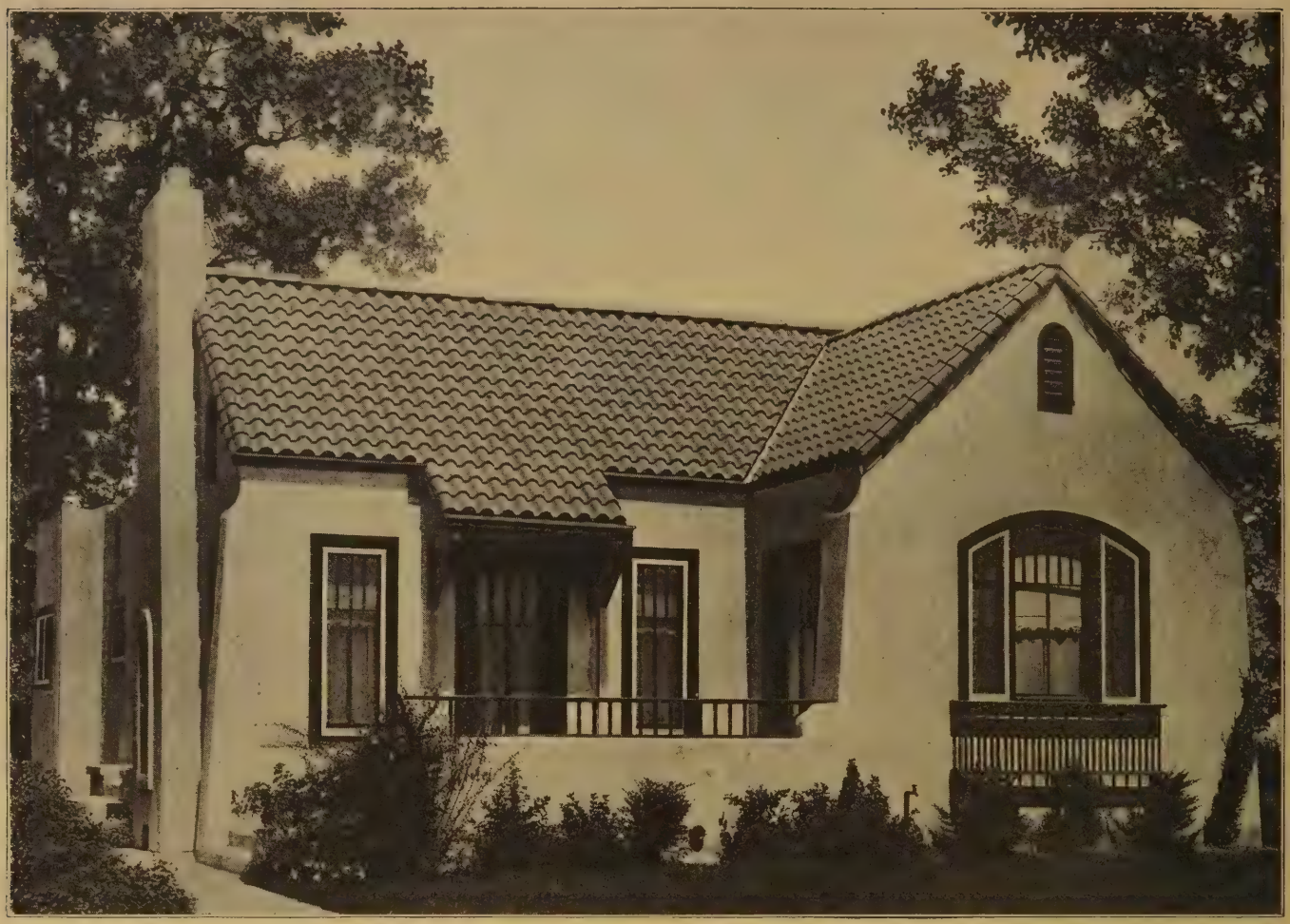
Extreme Width	34′ 6″
Extreme Depth	48′ 0″
Main Floor Ceiling	9′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

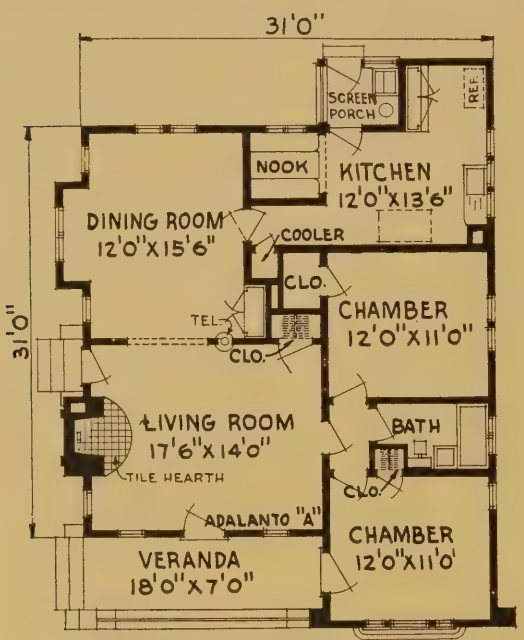
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Dining Nook

"The ADALANTO"

31 Ft. Wide x 43 Ft. Deep

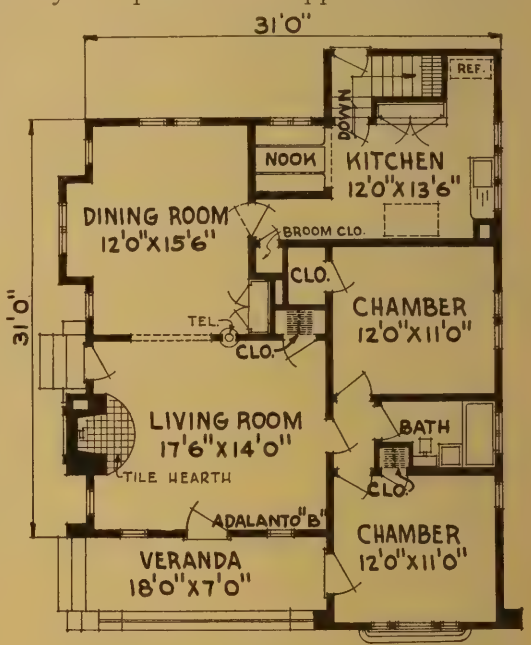


PLAN "A"—WITHOUT BASEMENT

SNUGLY within the bounds of good taste the "Adalanto" offers something that is a little different. While it is in the reserved Spanish style it presents an appearance that is unusual and distinctive. The floor plan also offers an unusual arrangement. Study it closely and appreciate its excellence. Frame construction outside walls with stucco on metal lath.

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	36' 0"
Extreme Depth	45' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

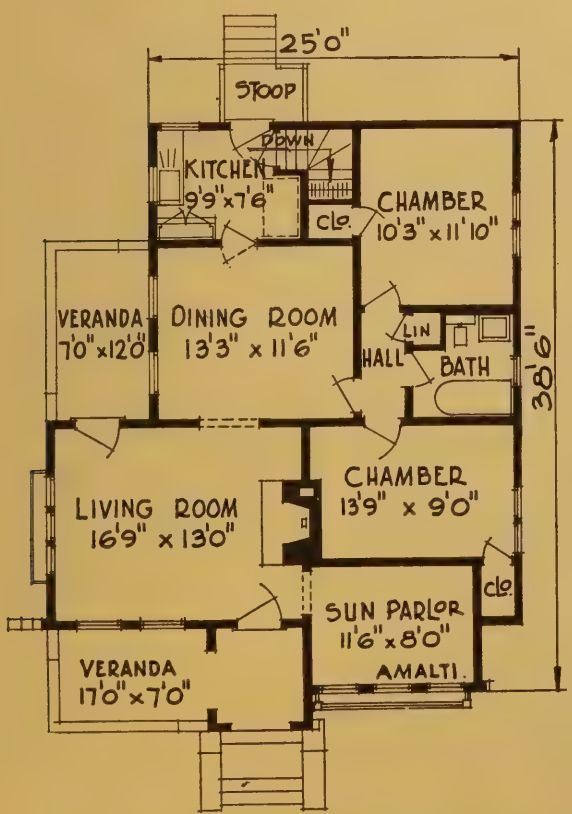
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Sun Parlor

"The AMALTI"

32 Ft. Wide x 38 Ft. 6 in. Deep



BORDERED by green trees and lawns, the "Amalti" is a picture indeed. The beauty of the Italian style was never shown to better advantage. Combination wall-board and lath is used for sheathing. Two verandas and a sun parlor are especially noteworthy. The rooms are distributed in the most up-to-date manner.

SIZES:

Extreme Width	**34' 6"**
Extreme Depth	**54' 0"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

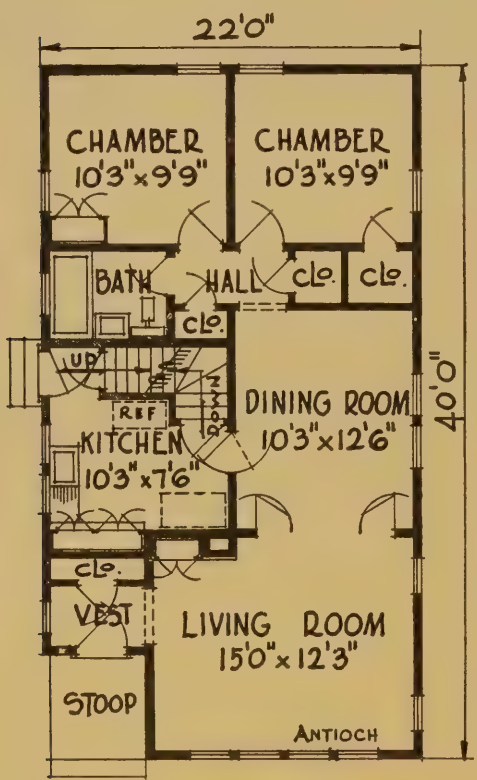
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ANTIOCH"

22 Ft. Wide x 40 Ft. Deep



THE EXTERIOR is an attractive combination of wide shingles and stucco, producing a harmonious effect. Folding French doors between the living room and dining room can be opened to give the continuous effect of a long room when so desired. The bath is placed so that it is easily accessable to both chambers.

SIZES:

Extreme Width	26′ 0″
Extreme Depth	41′ 6″
Main Floor Ceiling	8′ 6″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

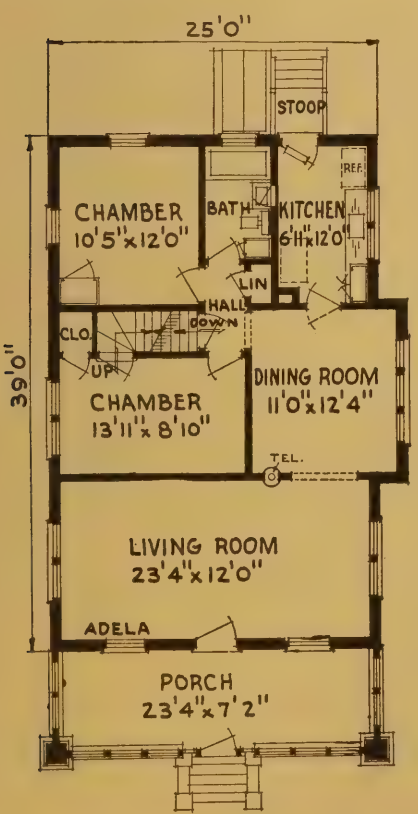
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ADELA"

25 Ft. Wide x 39 Ft. Deep



A SPECIFIC reason for owning your home. The "Adela" is inexpensive to build and a joy to own. Its outward beauty is evident in the above photograph and the floor plan adequately suggests the many comforts and conveniences. There is a roomy attic for storage. All in all, the "Adela" is a practical and pleasing buy.

THE OUTSIDE WALLS OF THIS HOME ARE BUILT OF HOLLOW CINDER CONCRETE BUILDING BLOCKS ON WHICH THE STUCCO AND PLASTER IS DIRECTLY APPLIED.

SIZES:

Extreme Width	**30' 0"**
Extreme Depth	**57' 6"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications and Two (2) Blank Contract Forms**
$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

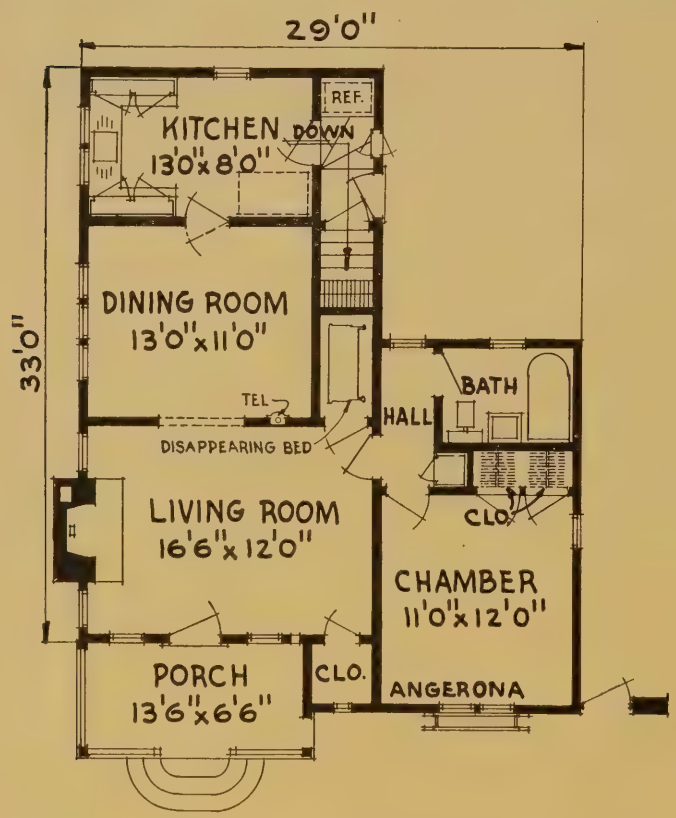
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms and Bath

"The ANGERONA"

29 Ft. Wide x 37 Ft. Deep



THE "Angerona" has style and distinction as the picture shows and if you can imagine it in color you will get the whole beautiful effect. The stucco is supported by wood lath. All rooms are airy and of good size. The startling inexpensiveness of this bungalow makes it a perfect home for the newly married couple starting out in life. And pleasant surroundings make happy marriages.

IN THIS PLAN A DISAPPEARING BED IS CONVENIENTLY PROVIDED WHICH, WHEN DESIRED, CONVERTS THE LIVING ROOM INTO AN EXTRA CHAMBER.

SIZES:

Extreme Width	**35' 6"**
Extreme Depth	**43' 0"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

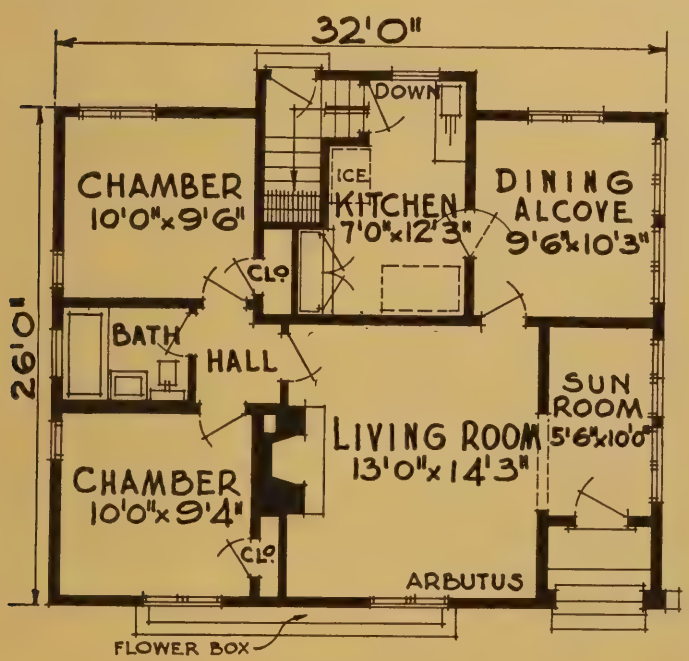
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Sun Room

"The ARBUTUS"

32 Ft. Wide x 26 Ft. Deep



THIS is an ideal bungalow for a small family. It contains all the convenient features so essential to the careful housekeeper. The exterior is impressive and individual in character.

The Arbutus is frame construction with metal lath and stucco applied to the outside walls.



View of Fireplace in Living Room

SIZES:

Extreme Width	**38' 0"**
Extreme Depth	**34' 0"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

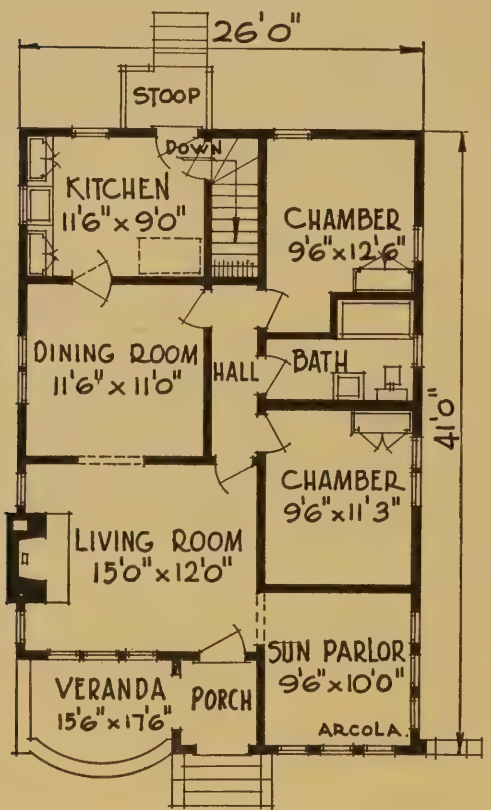
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Sun Parlor

"The ARCOLA"

26 Ft. Wide x 41 Ft. Deep



THE Italian style cannot fail to attain a certain popularity. Beauty and grace in stucco, combined with the personality of the design is irresistible, and the amazing thing is that it is inexpensive to build. The bungalow will always appeal to people seeking practical comfort. The "Arcola" is unusually well planned.

WALL BOARD COMBINED WITH LATH ARE USED FOR SHEATHING TO WHICH THE STUCCO IS DIRECTLY APPLIED MAKING A WARM COZY HOME

SIZES:

Extreme Width	**30' 9"**
Extreme Depth	**51' 0"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

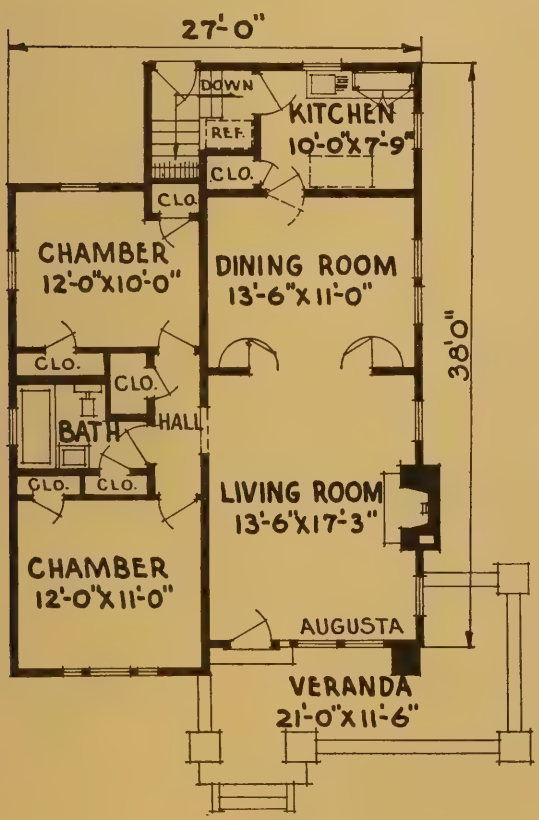
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AUGUSTA"

27 Ft. Wide x 38 Ft. Deep



A SUPERIOR bungalow in stucco. Dark trim, and the brick chimney have an apparent decorative value. The continuous sweep of the living and dining rooms is always effective. Six closets are unusual for a bungalow.

BEAUTY, COMFORT AND DURABILITY THREE ESSENTIAL POINTS TO BE CONSIDERED WHEN BUILDING A HOME

SIZES:

Extreme Width	36′ 6″
Extreme Depth	50′ 6″
Main Floor Ceiling	9′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

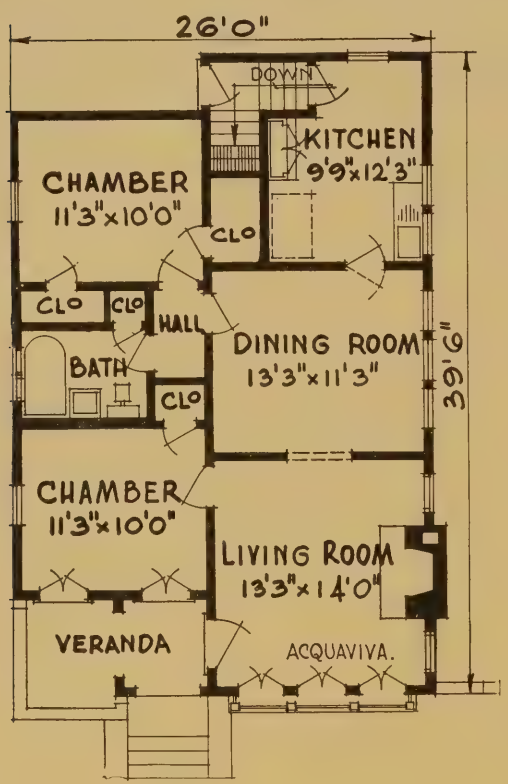
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ACQUAVIVA"

26 Ft. Wide x 39 Ft. 6 in. Deep



A BUNGALOW in the Italian style. The tile roof in front accounts for its gem-like appearance. The main roof is of flat tar and gravel. Inside the room arrangement affords all the snugness that the bungalow type makes possible.

THE BLUE PRINT PLANS OF THESE HOMES PROVIDE FOR GOOD ECONOMICAL CONSTRUCTION AND PREVENT COSTLY ERRORS.

SIZES:

Extreme Width	**30′ 0″**
Extreme Depth	**45′ 0″**
Main Floor Ceiling	**9′ 0″**
Basement Ceiling	**7′ 0″**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



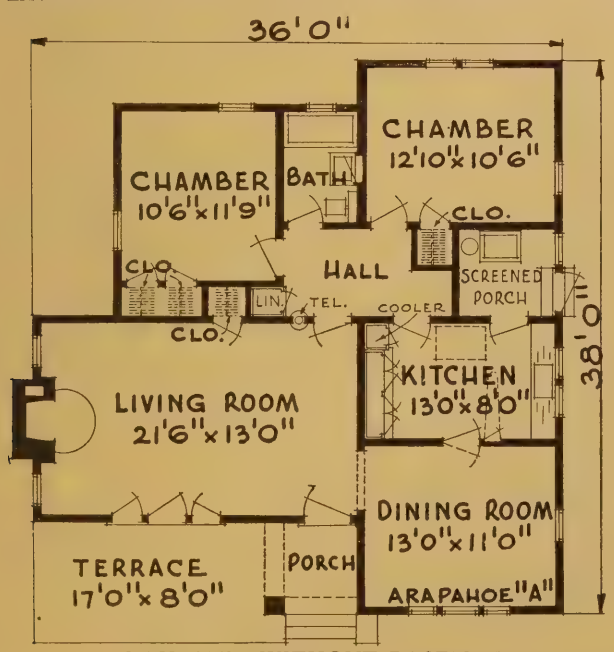
5 Rooms and Bath

"The ARAPAHOE"

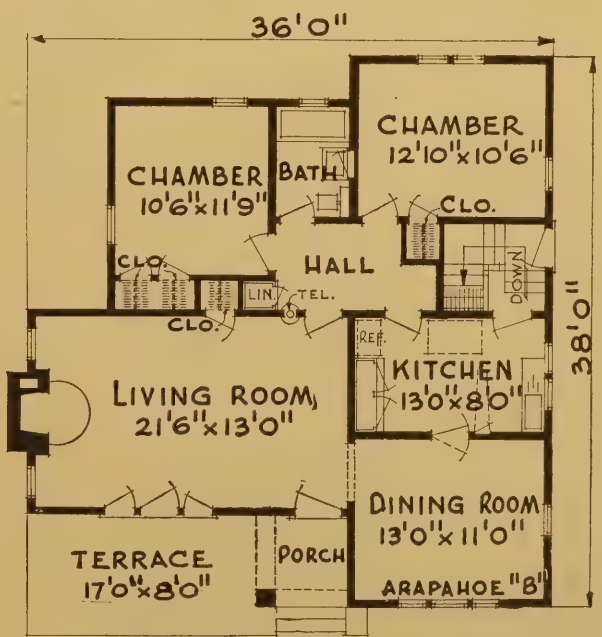
36 Ft. Wide x 38 Ft. Deep

IMPORTANT

When ordering plans of this design, state whether wanted with or without basement.



PLAN "A"—WITHOUT BASEMENT



PLAN "B"—WITH BASEMENT

SIZES:

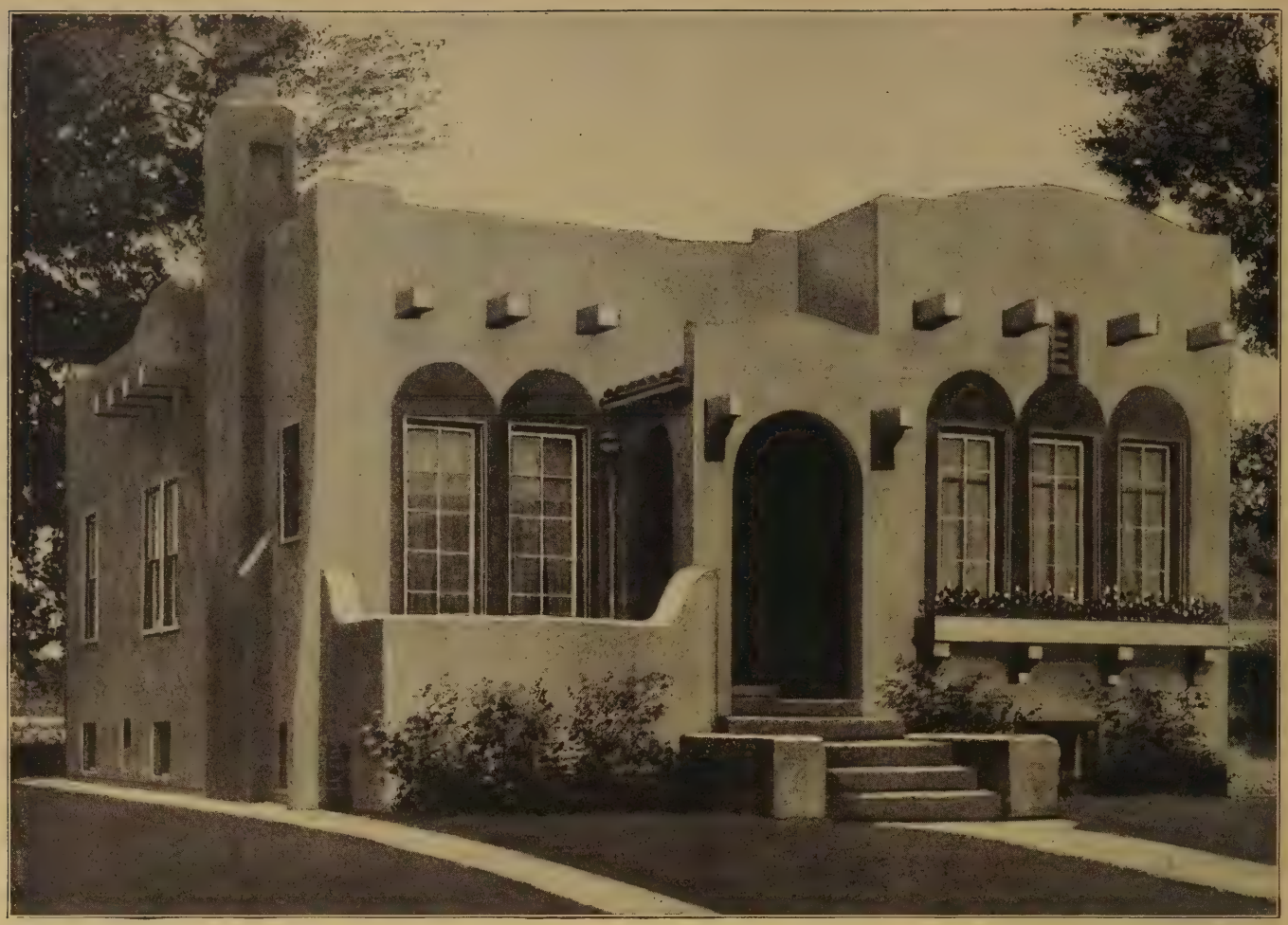
Extreme Width	38' 6"
Extreme Depth	38' 8"
Living Room Ceiling	11' 9"
Main Floor Ceiling—"Balance"	8' 3"
Basement Ceiling—Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

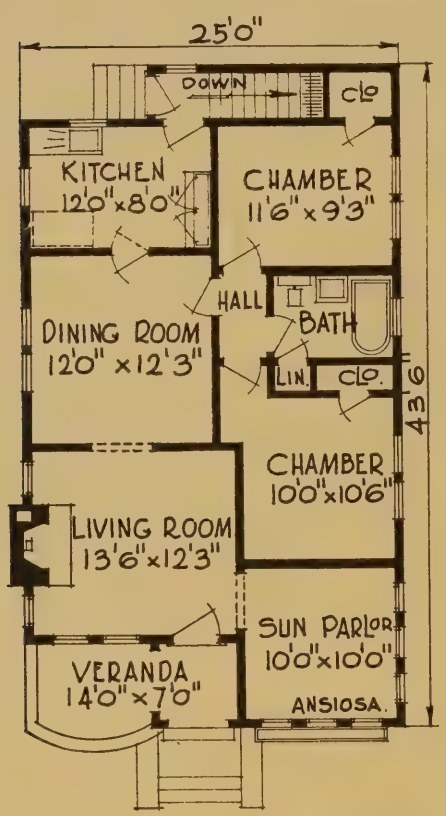
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Sun Parlor

"The ANSIOSA"

25 Ft. Wide x 43 Ft. 6 In. Deep



RESPLENDENT in its picturesqueness, the "Ansiosa" immediately catches the attention of the passerby. High arched casements, projecting beams, cool creamy stucco, all molded in the Italian fashion, makes an arresting picture. Inside we find the taste and economy of the architect revealed.

The outside walls of this home are of frame. The sheathing is a combination wall board with lath, to which stucco is applied. See plans.

SIZES:

Extreme Width	28' 0"
Extreme Depth	49' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

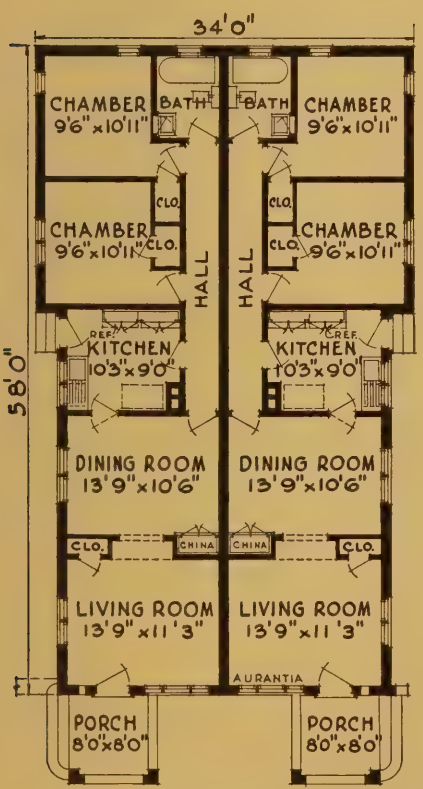


Two Family Home

"The AURANTIA"

34 Ft. Wide x 58 Ft. Deep

EACH FAMILY HAS 5 ROOMS AND BATH



HERE is an ideal twin home of Spanish type, designed for the practical convenience of two happy families. The attractive exterior is at once noticeable and very pleasing. The interior is convenient and practical, therefore it is easy to rent.

Each apartment is provided with plenty of sunshine. Do not overlook the abundance of closets.

HOLLOW TILE ARE USED FOR EXTERIOR WALLS. ROOFING TILE ARE FOR THE PORCH ROOFS.

SIZES:

Extreme Width	43' 0"
Extreme Depth	66' 0"
Main Floor Ceiling	8' 6"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

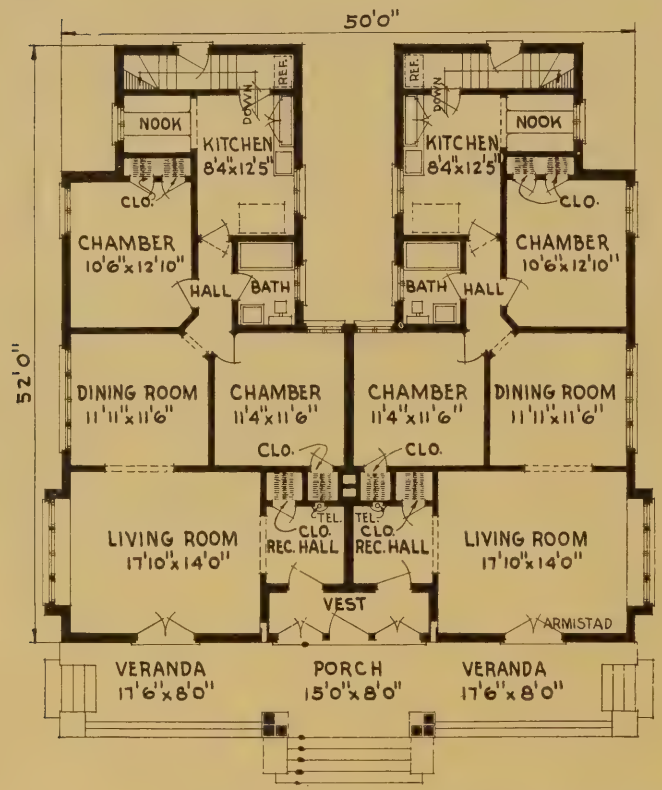


Two Family Home

"The ARMISTAD"

50 Ft. Wide x 52 Ft. Deep

EACH FAMILY HAS 5 ROOMS, BATH AND DINING NOOK



THE expense of maintaining a two-apartment home is not greatly in excess of maintaining the single home, while the rent received is a great aid in paying for the cost of construction. A design like the above will enable two families to dwell in comfort and happiness.

A twin home of the above type will prove to be the most profitable investment for those who build either for sale or for rent.

OUTSIDE WALLS ARE BUILT OF HOLLOW TILE WITH STUCCO AND PLASTER APPLIED DIRECTLY THERETO.

SIZES:

Extreme Width	**53' 0"**
Extreme Depth	**64' 6"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and **Two (2) Blank Contract Forms**.....

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

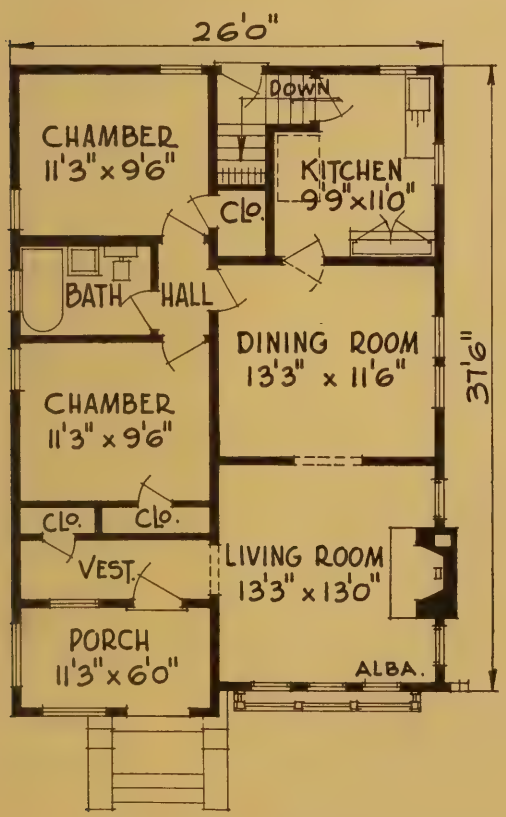
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALBA"

26 Ft. Wide x 37 Ft. 6 In. Deep



THE eminent practicability of the bungalow is here. coupled with the unusual beauty of the Italian style. The cool, recessed porch will be appreciated in the summer time. One enters first into the large vestibule, and from thence wanders through the home, finding satisfaction in every room.

The moderate cost of this home is due to the use of practical wall board sheathing lath. Blue prints give full details.

SIZES:

Extreme Width	28′ 0″
Extreme Depth	44′ 6″
Main Floor Ceiling	9′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

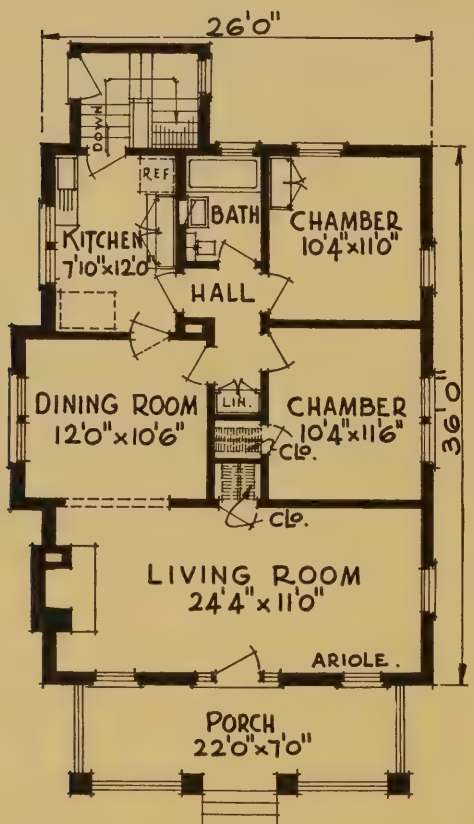
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ARIOLE"

26 Ft. Wide x 36 Ft. Deep



A BUNGALOW that is trim of line and artistic in decoration. The layout of rooms permits a great freedom of action and at the same time suggests many attractive possibilities of furnishing. The fireplace is big and booming and suffuses the room in its warm glow. It is a bungalow that is economical to build and it will be a constant source of domestic happiness.

STUCCO APPLIED DIRECTLY TO CINDER CONCRETE BUILDING BLOCKS WITH FACE BRICK TRIMMINGS FOR OUTSIDE WALLS DENOTES STRENGTH AND WARMTH

SIZES:

Basement Width	**32' 0"**
Extreme Depth	**54' 0"**
Main Floor Ceiling	**8' 6"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

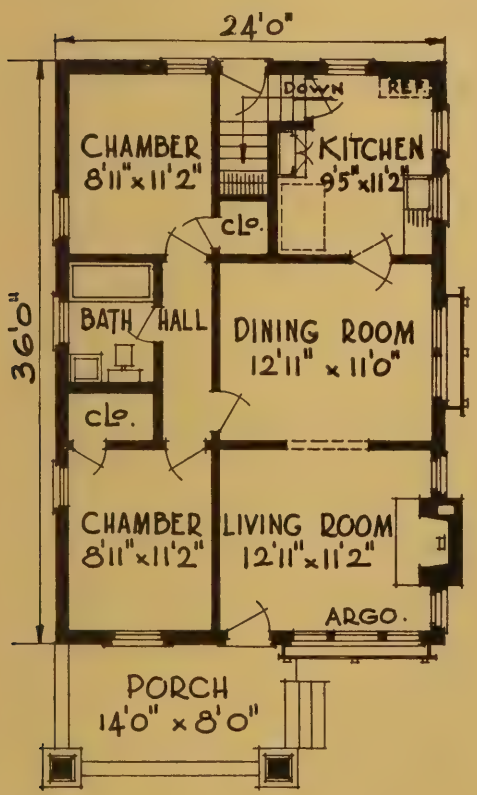
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ARGO"

24 Ft. Wide x 36 Ft. Deep



A BUNGALOW in light colored stucco that fairly radiates sunshine.

The stucco is mounted on hollow tile, insuring safety, and permanence.

The projecting beams lend distinction to its appearance.

Large, airy rooms make the "Argo" the sunshiny home it appears to be.

SIZES:

Extreme Width	31' 0"
Extreme Depth	51' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

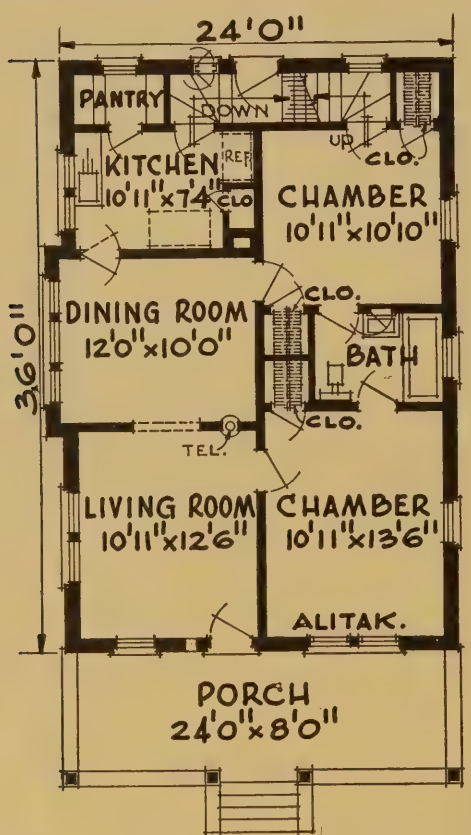
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALITAK"

24 Ft. Wide x 36 Ft. Deep



A STUCCO home in the popular style makes a direct appeal to the home-seeker wanting simple beauty at a moderate price. The large airy porch is a pleasant rendezvous for summer evenings. Inside a definit efficiency is maintained both in equipment and in room arrangement. The "Alitak" is a practical home appealing to every member of the family.

CINDER CONCRETE BUILDING BLOCKS ARE USED FOR THE OUTSIDE WALLS. STUCCO AND PLASTER ARE APPLIED DIRECTLY TO BLOCKS.

SIZES:

Extreme Width	28' 6"
Extreme Depth	48' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

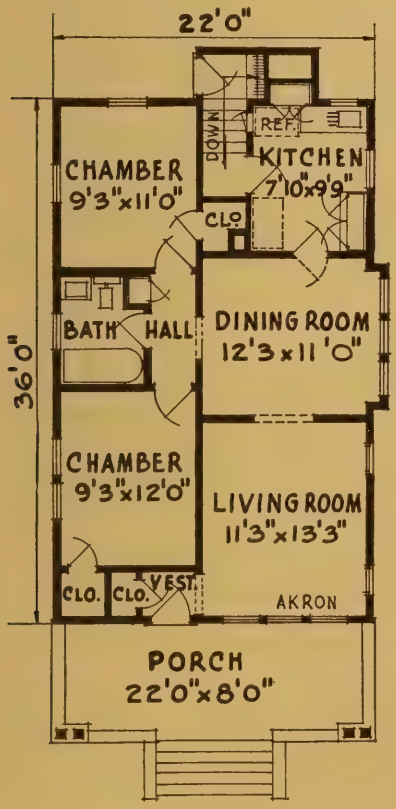
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AKRON"

22 Ft. Wide x 36 Ft. Deep



A BUNGALOW of the popular type. An attractive exterior, coupled with living comfort justifies its popularity. Being only 22 feet wide, the "Akron" is suitable for a narrow lot. Yet the admirable distribution of the rooms gives all the roomy comfort of a wider home.

CORRECTLY DRAWN PLANS SAVE TIME, MONEY AND WORRY

SIZES:

Extreme Width	26' 6"
Extreme Depth	53' 0"
Main Floor Ceiling	8' 8"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

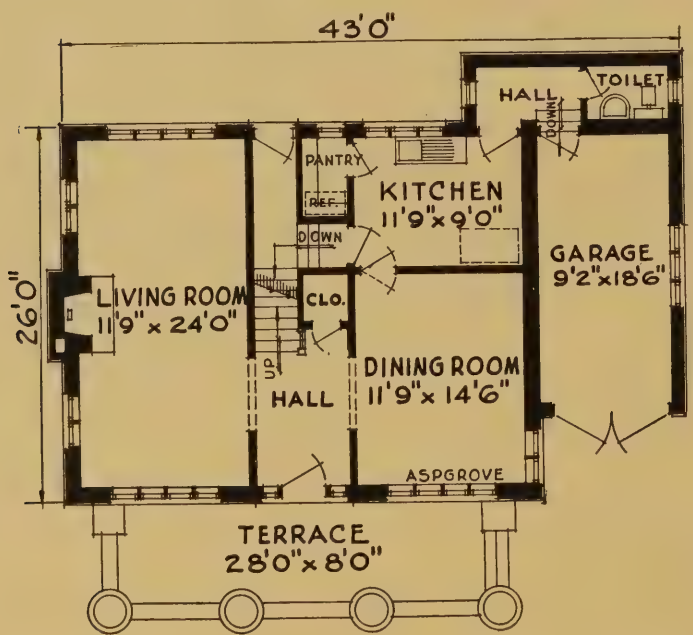


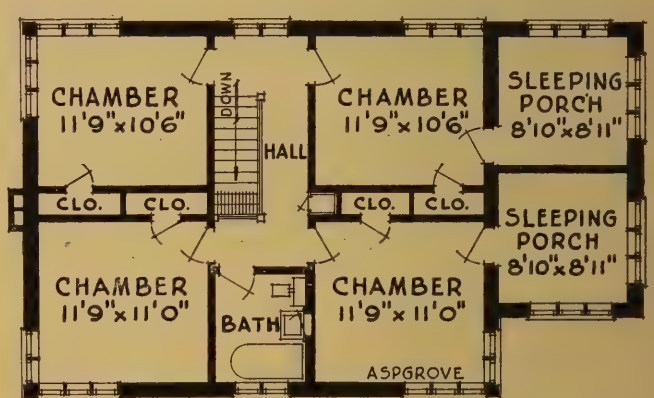
7 Rooms, Toilet, Bath
Sleeping Porches and Garage

"The ASPGROVE"

43 Ft. Wide x 26 Ft. Deep

MANY builders desire the convenience of a garage combined with the home as illustrated by this design. The second floor space over the garage is utilized for sleeping porches. The toilet at rear of garage is well located. This modern home is a good example of concrete block construction for outside walls.





SIZES:

Extreme Width	48' 0"
Extreme Depth	41' 6"
First Floor Ceiling	8' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

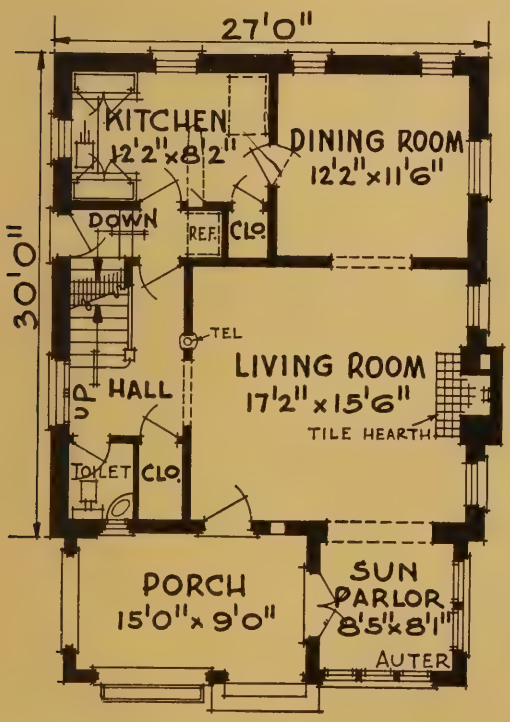
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms, Bath, Toilet, Sewing Room and Sun Parlor

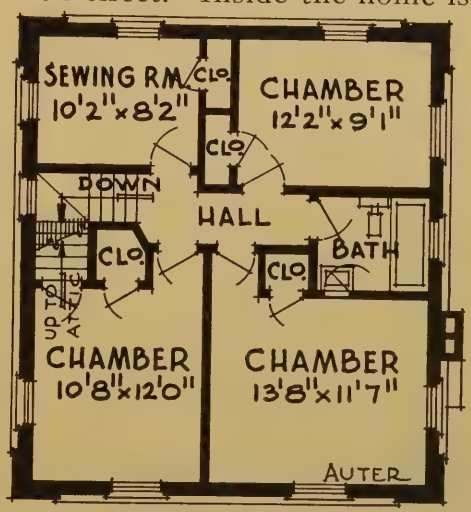
"The AUTER"

27 Ft. Wide x 30 Ft. Deep



THE combination of stucco with cement blocks gives an harmonious and rich effect. Inside the home is complete both in the size and equipment of the rooms. The floor plan is an excellent one and is deserving of your keenest scrutiny.

CONCRETE BLOCKS ARE USED TO CONSTRUCT ALL OUTSIDE WALLS. STUCCO IS APPLIED TO THE UPPER STORY WALLS AND GABLES.



SIZES:

Extreme Width	33' 0"
Extreme Depth	43' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

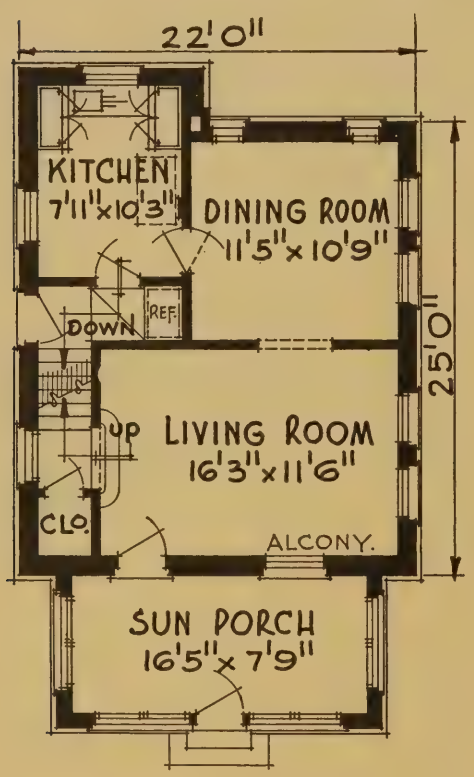
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALCONY"

22 Ft. Wide x 25 Ft. Deep

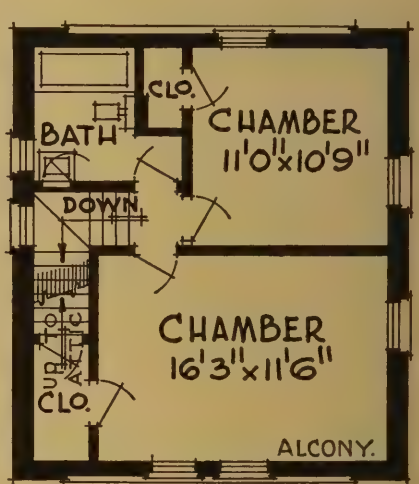


HERE is a practical five-room house of attractive design which, on account of its size and square shape, can be erected at the minimum cost. The rooms are large and well planned to accomodate a small family.

THE OUTSIDE WALLS ARE OF CONCRETE BLOCKS. WHERE STUCCO IS SHOWN, IT IS APPLIED DIRECTLY TO THE BLOCKS.

SIZES:

Extreme Width	28' 0"
Extreme Depth	40' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"



Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

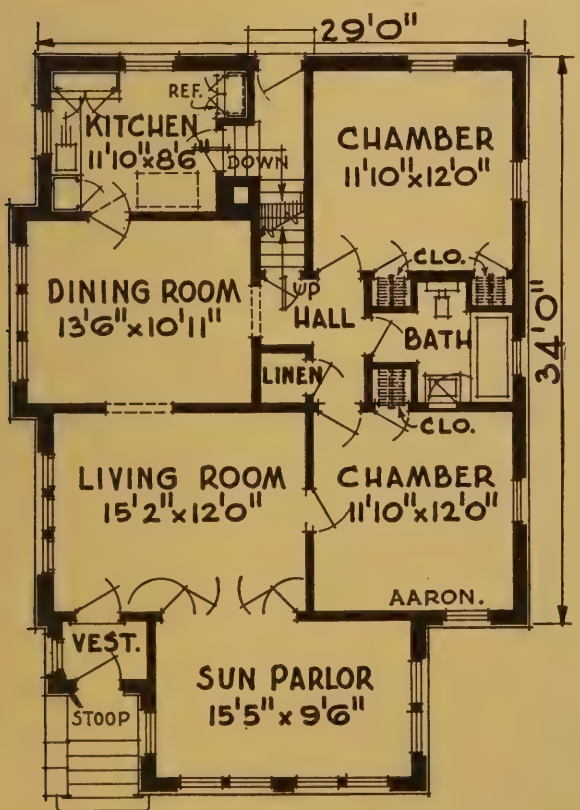
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Sun Parlor

"The AARON"

29 Ft. Wide x 44 Ft. Deep



TO many the "Aaron" will be the answer to their domestic problems. It is an artistically conceived bungalow, one that catches the eye and holds it. Also, it is exceedingly livable as a glance at the floor plan will show. In short, this home offers the kind of an environment that insures domestic happiness.

ALL OUTSIDE WALLS ARE CONSTRUCTED OF CONCRETE BLOCKS. THE UPPER WALLS AND GABLES ARE FINISHED IN STUCCO APPLIED DIRECTLY TO THE BLOCKS.

SIZES:

Extreme Width	34' 0"
Extreme Depth	48' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

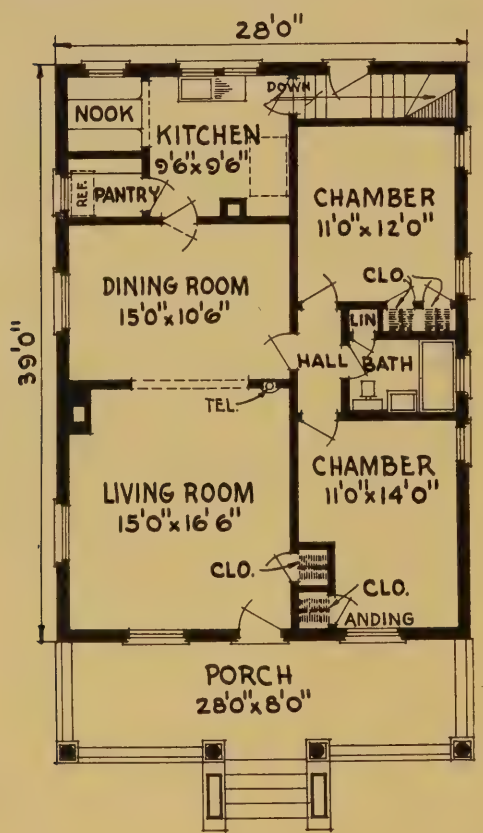
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Dining Nook

"The ANDING"

28 Ft. Wide x 39 Ft. Deep



THE "Anding" is a good investment. It offers an attractive exterior and comfortable living facilities at a low constructional cost. Also it is a bungalow that you will not tire of, because it was tastily and modestly conceived. Permanent in appeal and construction.

THIS HOME IS CONSTRUCTED WITH OUTSIDE WALLS OF CONCRETE BLOCKS. THE BLUE PRINT PLANS GIVE ALL DIMENSIONS AND COMPLETE DETAILS.

SIZES:

Extreme Width	**32' 0"**
Extreme Depth	**54' 0"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

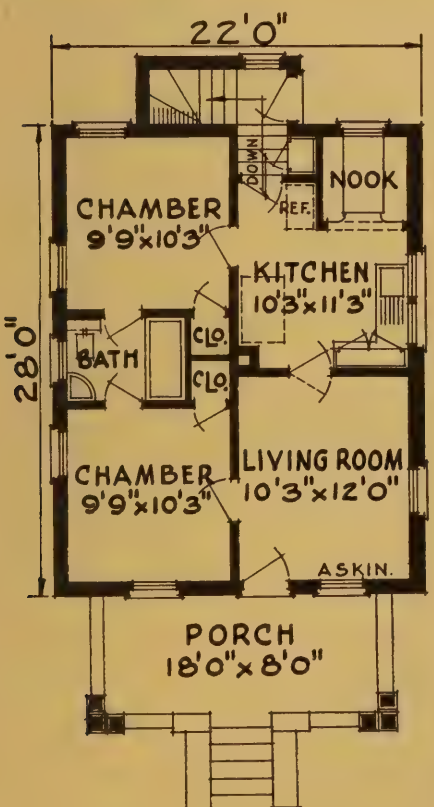
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Dining Nook

"The ASKIN"

22 Ft. Wide x 28 Ft. Deep



A CERTAIN monumentality has been obtained in this home. The stalwart pillars and large building units have an almost classic beauty. It should also be mentioned that the "Askin" is a most comfortable home to live in.

A PLEASING EXAMPLE OF SMALL HOME CONCRETE BLOCK CONSTRUCTION. ALL OUTSIDE WALLS ARE BUILT UP OF HOLLOW CONCRETE BLOCKS.

SIZES:

Extreme Width	26' 0"
Extreme Depth	47' 0"
Main Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items .....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms** .....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

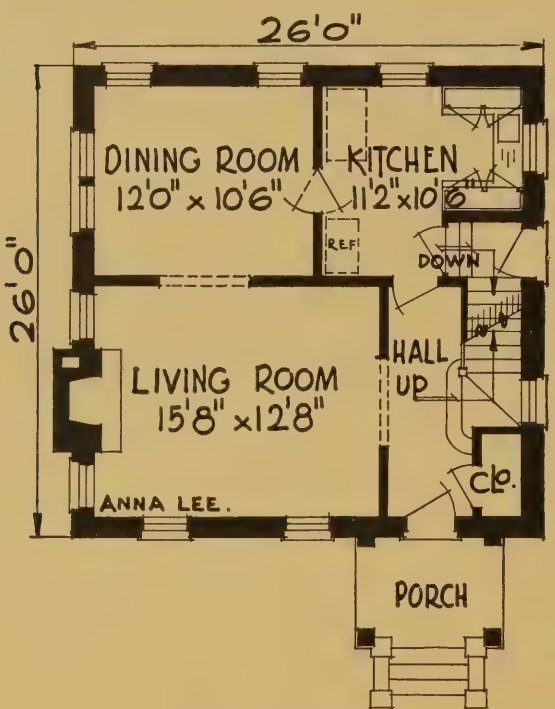


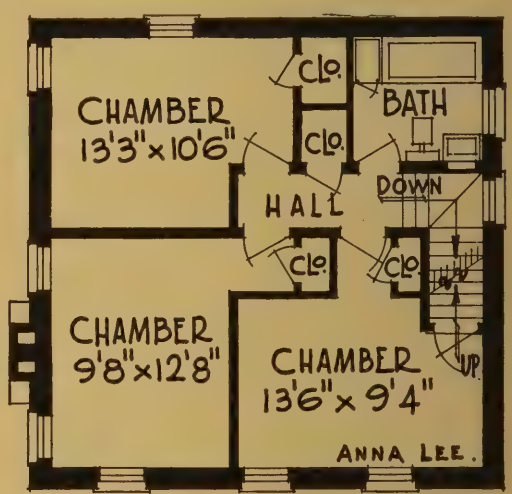
6 Rooms and Bath

"The ANNA LEE"

26 Ft. Wide x 26 Ft. Deep

IT is the kind of a home you find on long shady streets tucked in among the trees. There, or in the open the "Anna Lee" is a charming sight. And there is plenty of space and comfort inside. Kitchen cabinets, a medicine cabinet and a towel case are among the conveniences. All rooms are large and comfortable.





SIZES:

Extreme Width	30' 0"
Extreme Depth	37' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

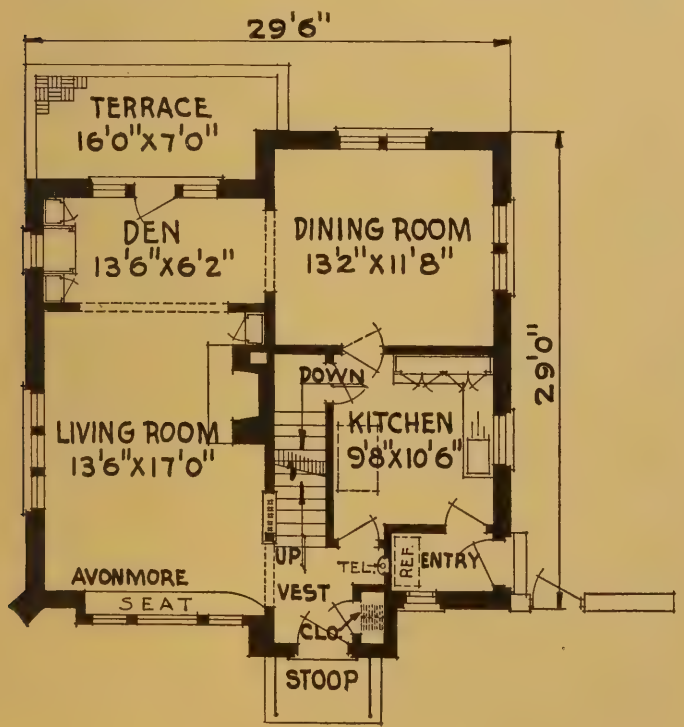


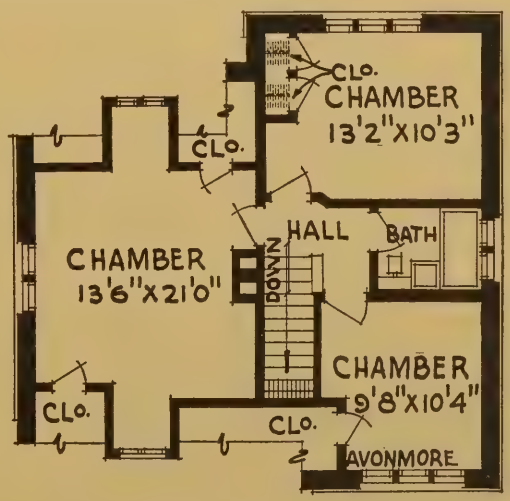
6 Rooms, Bath and Den

"The AVONMORE"

29 Ft. 6 In. Wide x 29 Ft. Deep

THE "Avonmore" is a model home of graceful proportion, beauty, and distinction. The architect used extreme care in giving this design all the essential conveniences and comforts so much desired by the modern home builders. A careful study of the plans and picture will reveal many admirable features.





SIZES:

Extreme Width	40' 6"
Extreme Depth	40' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

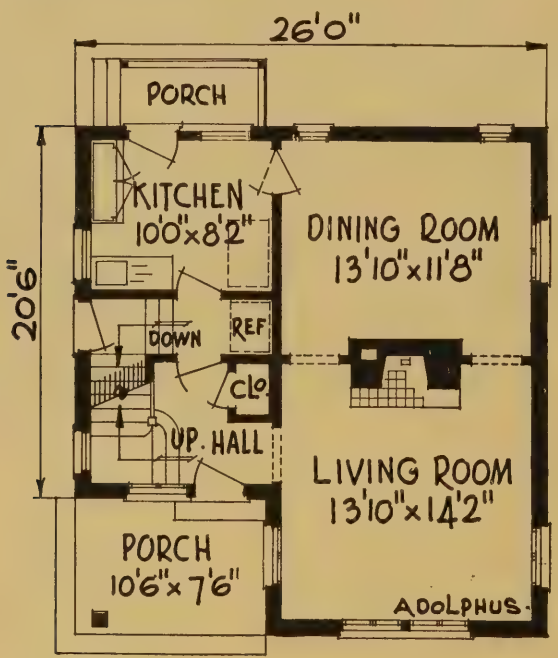


6 Rooms and Bath

"The ADOLPHUS"

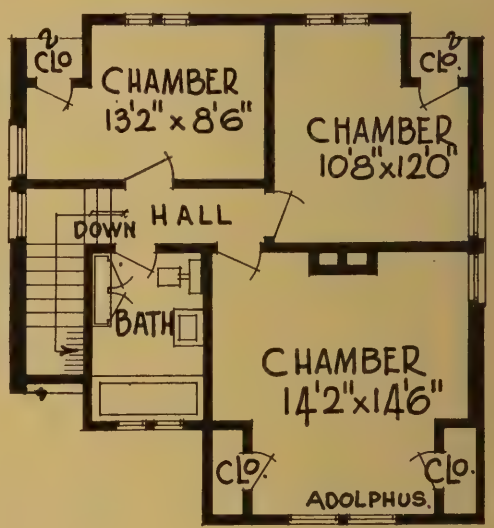
26 Ft. Wide x 28 Ft. Deep

NEXT to the consideration of quality and comfort, continuous satisfaction is most important. That is a home must wear well and not lose its charm in the first year. The "Adolphus" possessing an exceedingly tasty and artistic exterior should be a permanent source of pleasure. The interior is equally fresh and attractive.



FEATURES

Steel Sash, Tile Roof, Face Brick Walls, Stucco and Half Timbered Gable.



SIZES:

Extreme Width	28' 6"
Extreme Depth	34' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

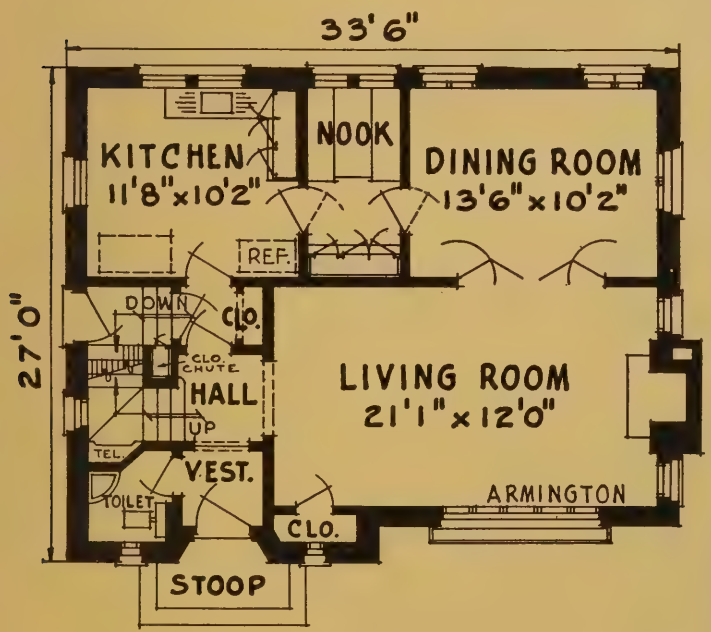
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



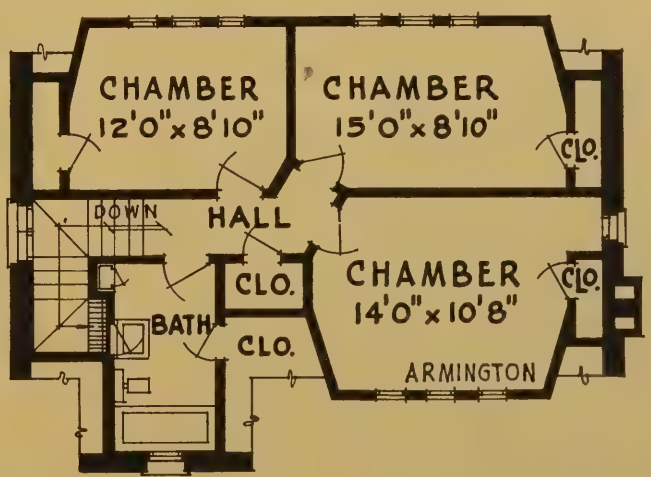
6 Rooms, Bath and Dining Nook

"The ARMINGTON"

33 ft. 6 in wide x 27 ft. deep.



THE picture tells the story. A beautiful and substantial home of solid brick outside walls with face brick for exterior surface. A well designed home to last for generations. An abundance of helpful sunshine is provided by the generous use of steel sash throughout the entire structure.



SIZES:

Extreme Width	36'0"
Extreme Depth	32'0"
First Floor Ceiling	8'6"
Second Floor Ceiling	8'0"
Basement Ceiling	7'0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

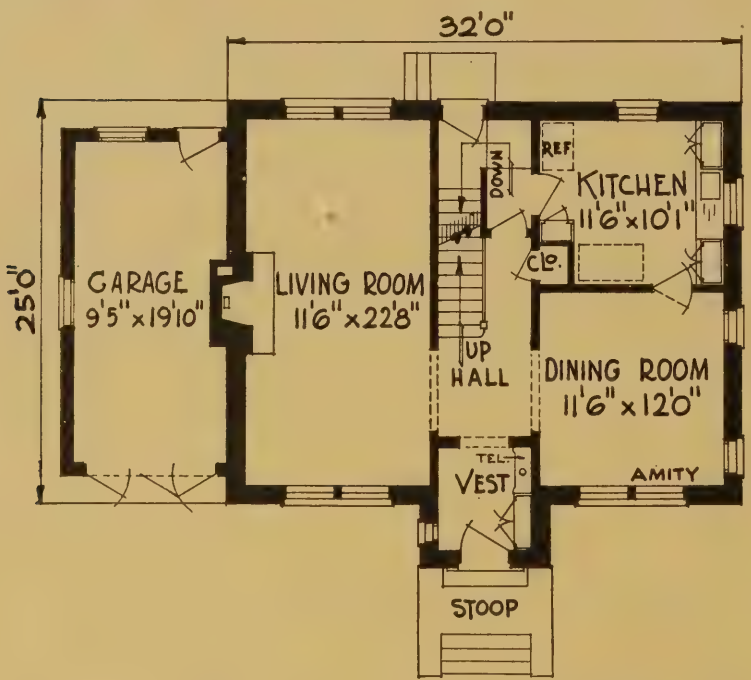


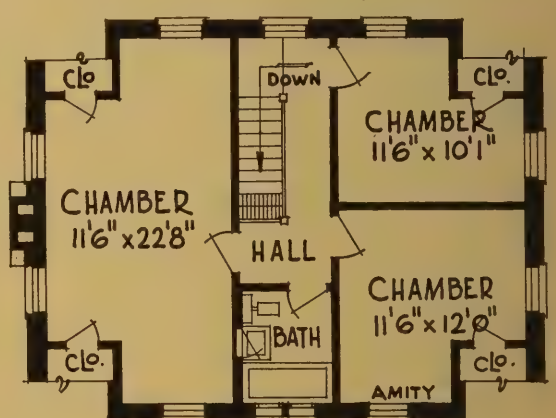
6 Rooms, Bath and Garage

"The AMITY"

32 Ft. Wide x 25 Ft. Deep

AN AIR of content and comfort seems to permeate the "Amity." There is a permanent beauty always found in the face brick walls. Inside we find generous rooms in excellent relation to each other bearing out the impression given by the outside. Built in kitchen and telephone cabinets and a medicine case are featured.





SIZES:

Extreme Width	44' 6"
Extreme Depth	38' 9"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 2"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

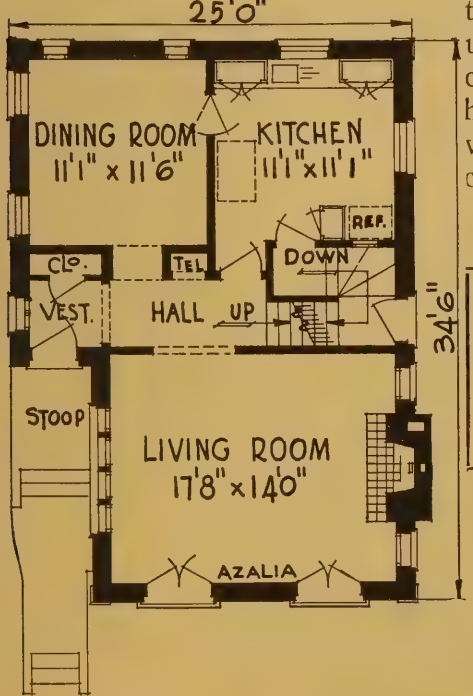


6 Rooms and Bath

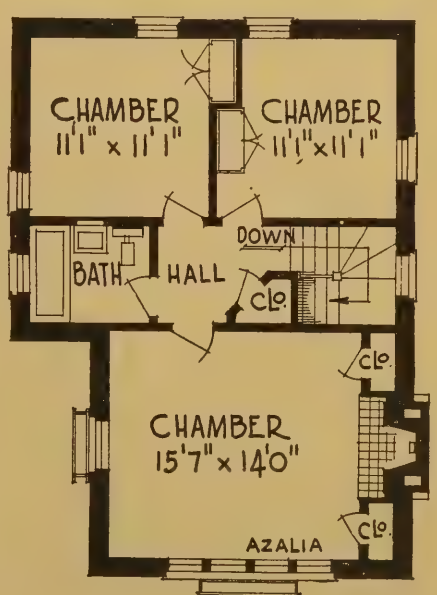
"The AZALIA"

25 Ft. Wide x 34 Ft. 6 In. Deep

WELL laid face brick produces an effect that is rich, colorful and harmonious. By having the entrance at the side greater privacy is assured and the living room thereby becomes a separate unit. There is a telephone cabinet off the downstairs hall. The upstairs chamber with its fireplace and two closets will be appreciated.



PLANS CLEARLY AND CONCISELY DETAIL ALL WORK TO ENABLE BUILDERS TO FULLY UNDERSTAND.



SIZES:

Extreme Width	29' 3"
Extreme Depth	42' 3"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

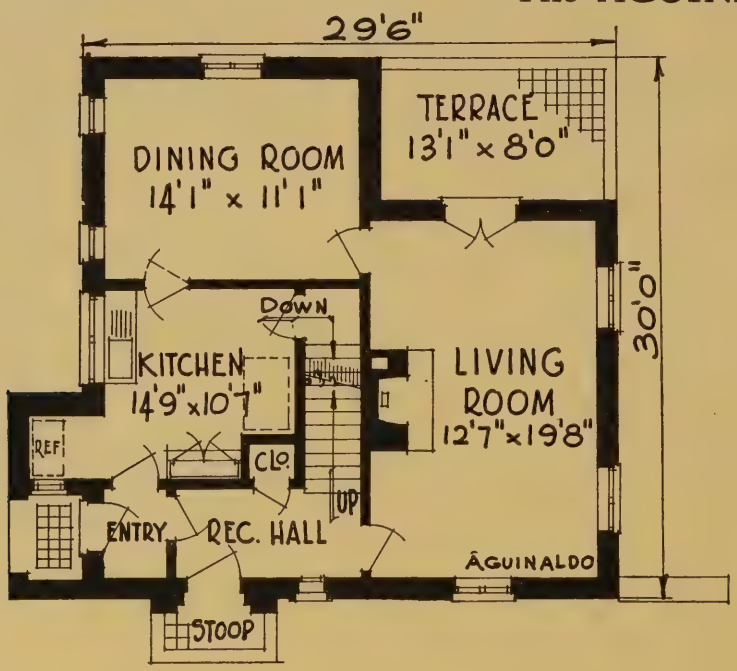
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



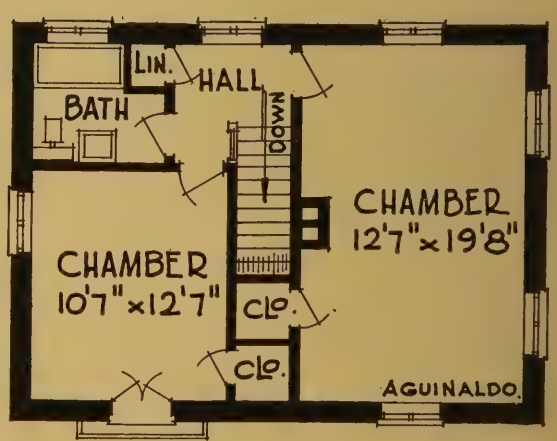
5 Rooms and Bath

"The AGUINALDO"

29 Ft. 6 In. Wide x 22 Ft. Deep



THE "Aguinaldo" combines the charm of an old home with the conveniences of the modern. A tile roof was never used to a better advantage. The interior arrangement from the reception hall to the big upstairs chamber is all that could be wished for.



SIZES:

Extreme Width	39' 6"
Extreme Depth	34' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

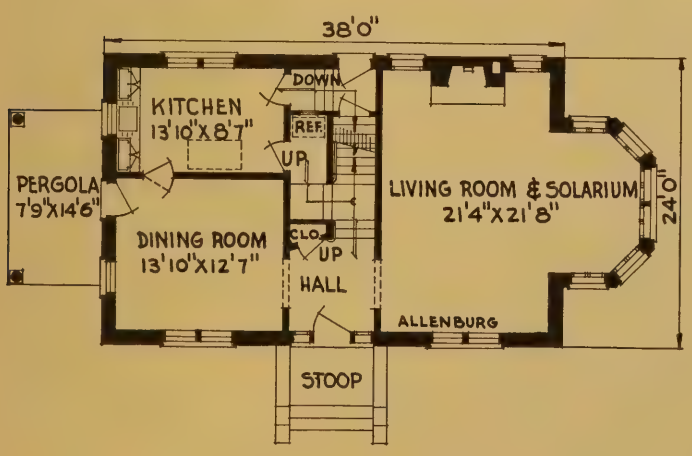


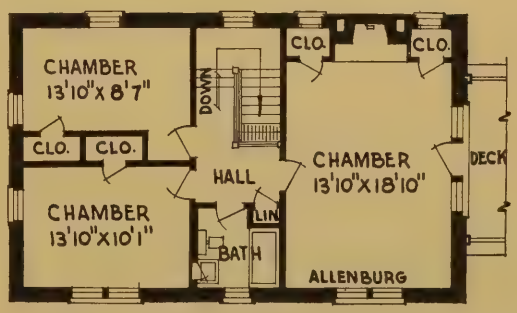
6 Rooms, Bath and Solarium

"The ALLENBURG"

38 Ft. Wide x 24 Ft. Deep

THE Dutch Colonial style carried out in brick proves to be very effective as shown here. By placing a pergola at one end and the solarium at the other, the architect has achieved perfect balance. You can visualize the effect of the combined living room and solarium from the floor plan, and you may rest assured that it is delightful. Also note the large chamber with fireplace and door opening to the upper deck. This home is a splendid illustration of well laid face brick.





SIZES:

Extreme Width	56' 0"
Extreme Depth	34' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 3"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

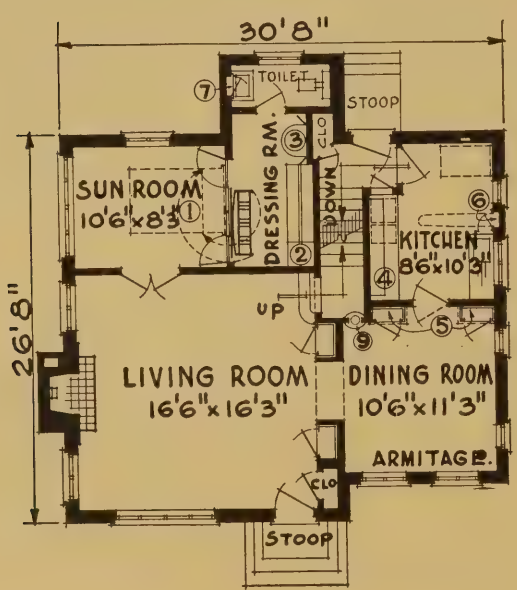
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



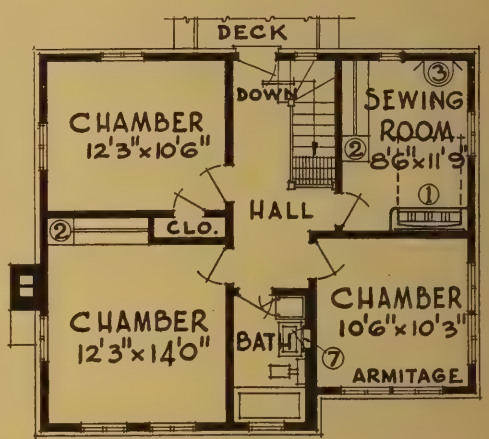
6 Rooms, Bath, Toilet, Sewing, Sun Room and Dressing Room

"The ARMITAGE"

30 Ft. 8 In. Wide x 26 Ft. 8 In. Deep



A COMBINATION brick veneer and stucco home of six main rooms with eight room efficiency. The sun room and sewing room are each equipped with a disappearing bed, thereby adding two extra chambers. Much is added to the convenience of the kitchen by the use of space saving devices. Steel sash are installed thruout the entire home.



SIZES:

Extreme Width	34' 0"
Extreme Depth	38' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Beds"
2—"Dressing Cabinets"
3—"Dressing Table"
4—"Combination Kitchen Cabinet and Refrigerator"
5—"China Cabinets"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
9—"Telephone Cabinet"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

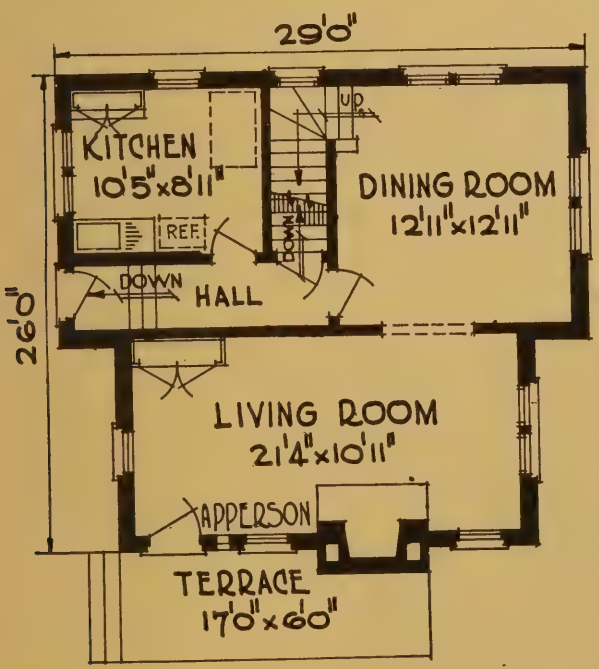
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



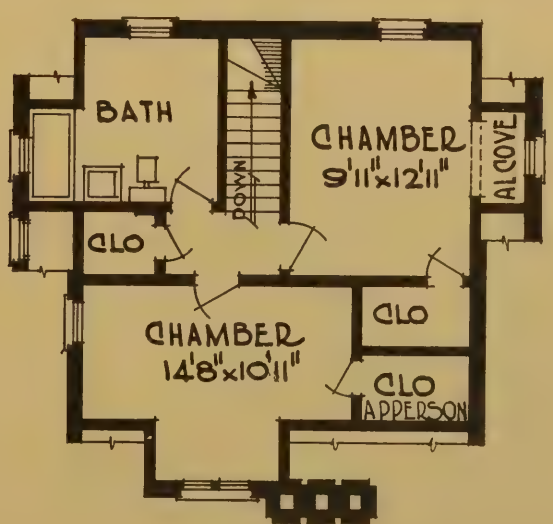
5 Rooms and Bath

"The APPERSON"

29 Ft. Wide x 26 Ft. Deep



A SMALL two story English house, showing the attractive possibilities of face brick veneer. Its very compactness of design promises snugness and comfort. The massive chimney cannot help but impress the passerby.



SIZES:

Extreme Width	30' 6"
Extreme Depth	28' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

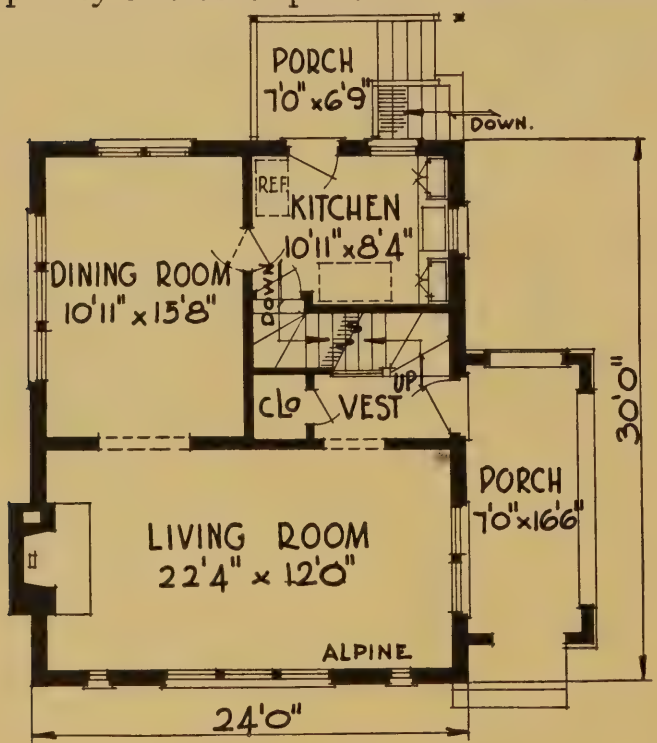


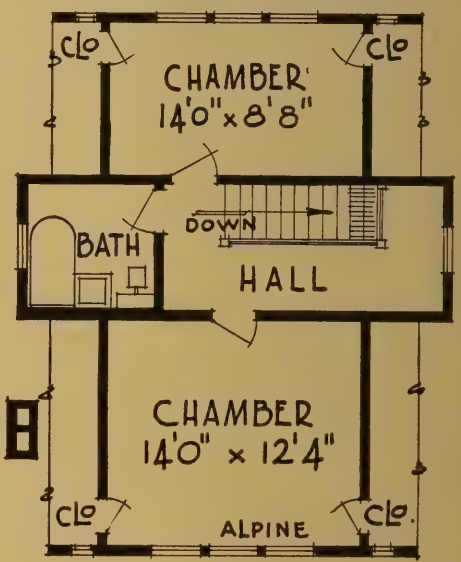
5 Rooms and Bath

"The ALPINE"

24 Ft. Wide x 30 Ft. Deep

AN attractive home with face brick veneer for lower story and stucco on wood lath for upper story. The interior contains five good sized rooms with plenty of closet space and other modern conveniences.





SIZES:

Extreme Width	33' 6"
Extreme Depth	39' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

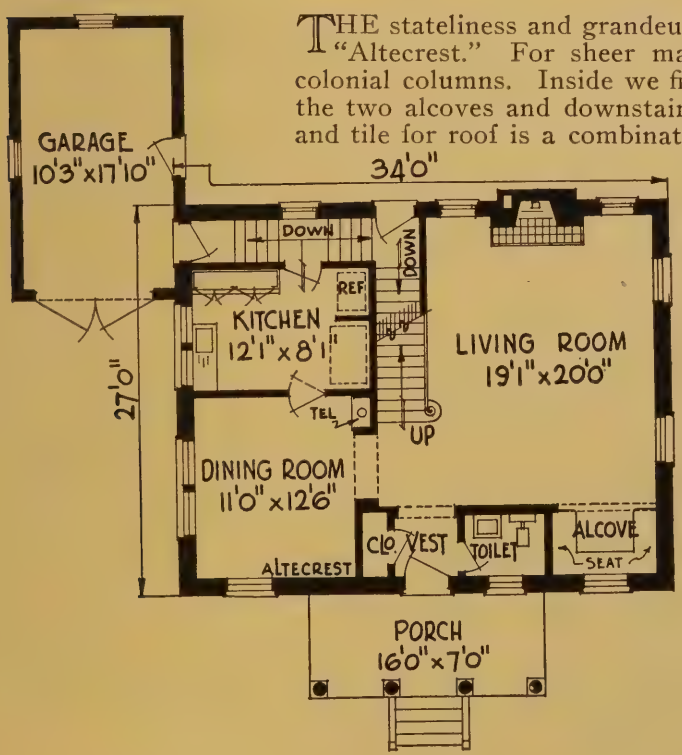


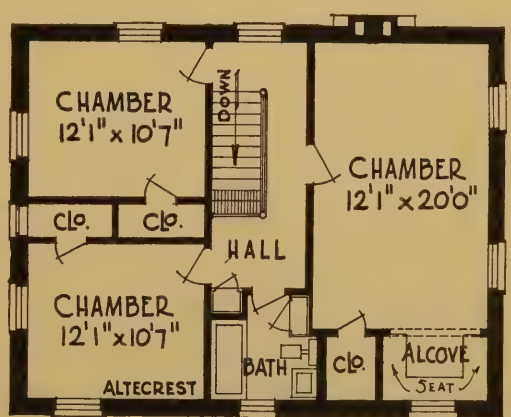
6 Rooms, Bath, Toilet, Two Alcoves and Garage

"The ALTECREST"

34 Ft. Wide x 27 Ft. Deep

THE stateliness and grandeur of the old Southern Colonial style is preserved in the "Altecrest." For sheer majesty in a home nothing will ever replace the tall colonial columns. Inside we find the same simple grandeur. The garage at side, the two alcoves and downstairs toilet should be noticed. Face brick exterior walls and tile for roof is a combination of strength and durability.





SIZES:

Extreme Width	47' 4"
Extreme Depth	51' 2"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

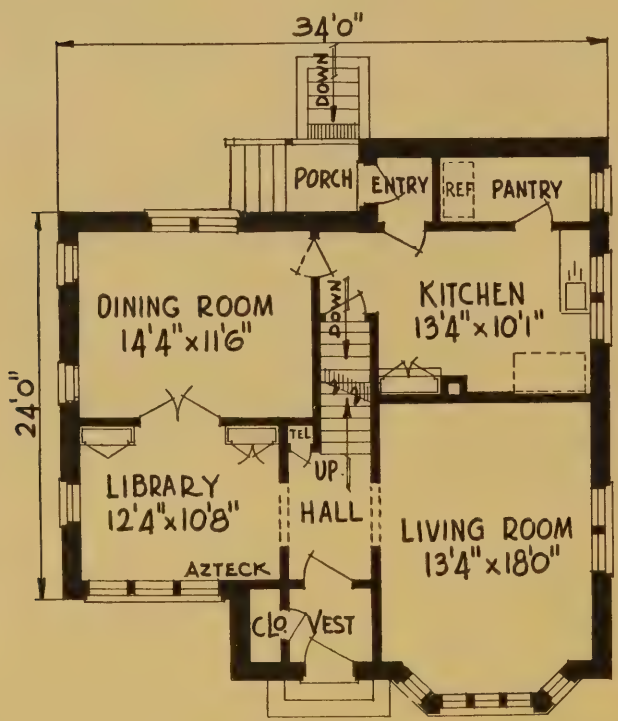


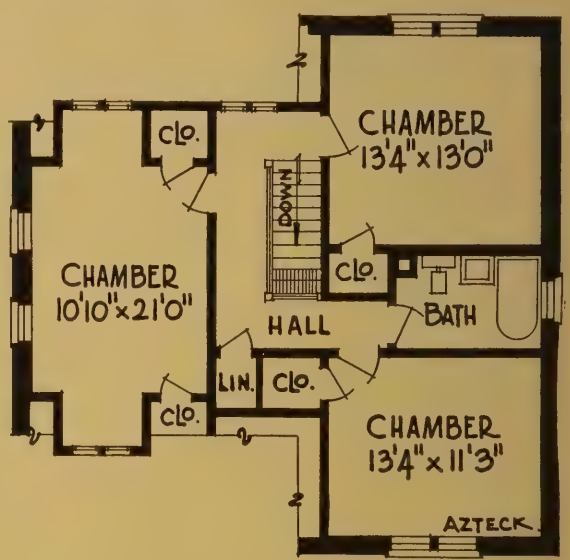
7 Rooms and Bath

"The AZTECK"

34 Ft. Wide x 33 Ft. 6 In. Deep

THE architect has achieved something different which at the same time remains free from criticism. The face brick is laid to give the skintled effect at once artistic and pleasing. Special attention should be given to the unusually large chambers.





SIZES:

Extreme Width	35' 6"
Extreme Depth	41' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

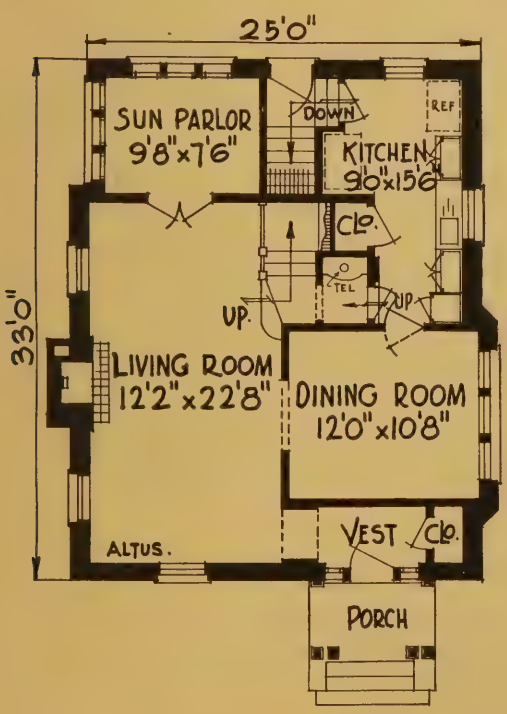


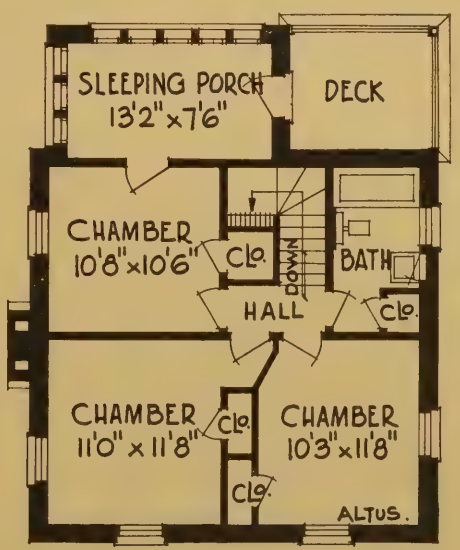
6 Rooms, Bath, Sun Parlor and Sleeping Porch

"The ALTUS"

25 Ft. Wide x 33 Ft. Deep

IT is often surprising to find just how simple beautiful things can be. A rich, glowing face brick surface, unadorned save for Colonial shutters, make a beautiful appearance. A sun parlor and sleeping porch are found in the rear.





SIZES:

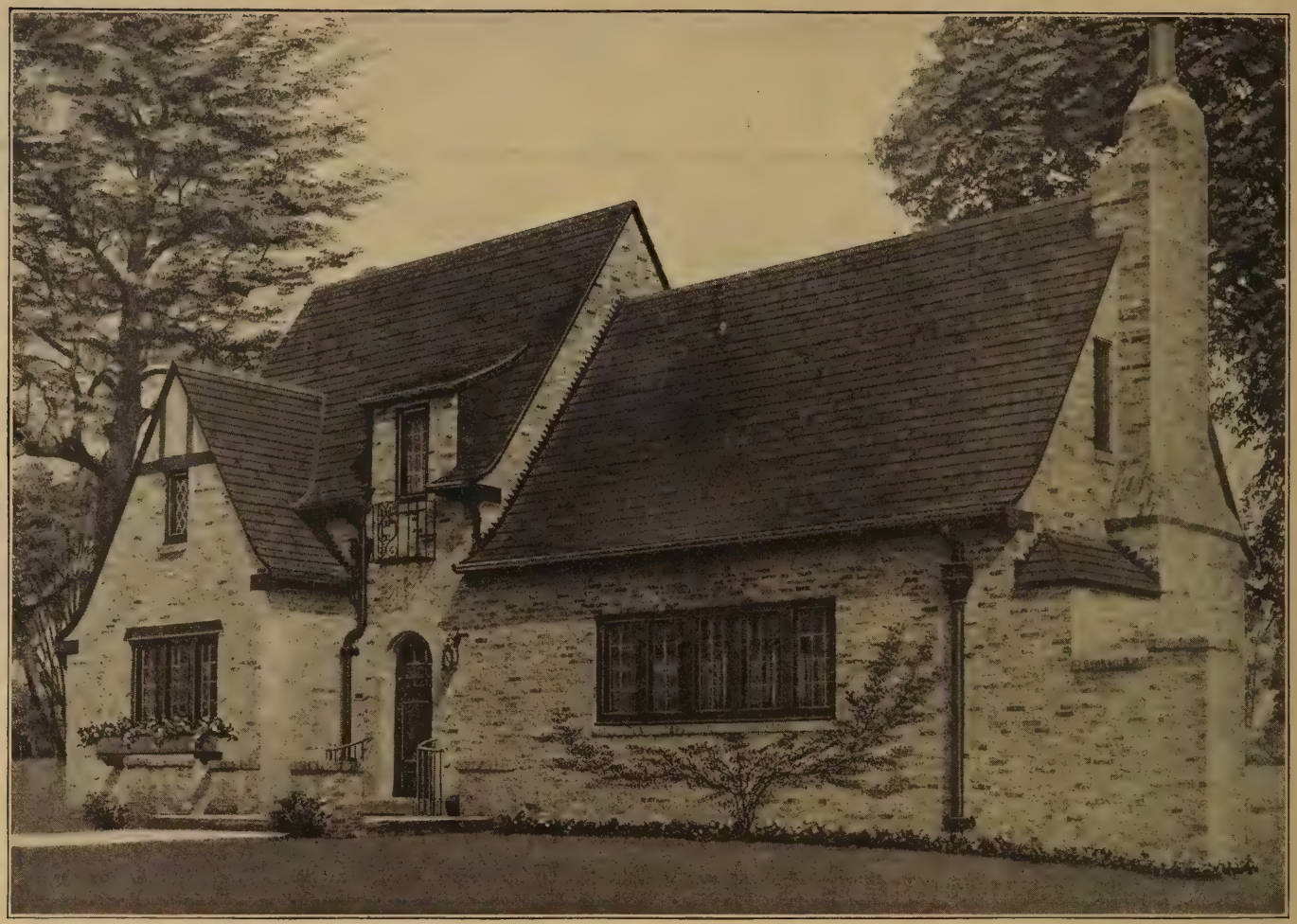
Extreme Width	29' 3"
Extreme Depth	42' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

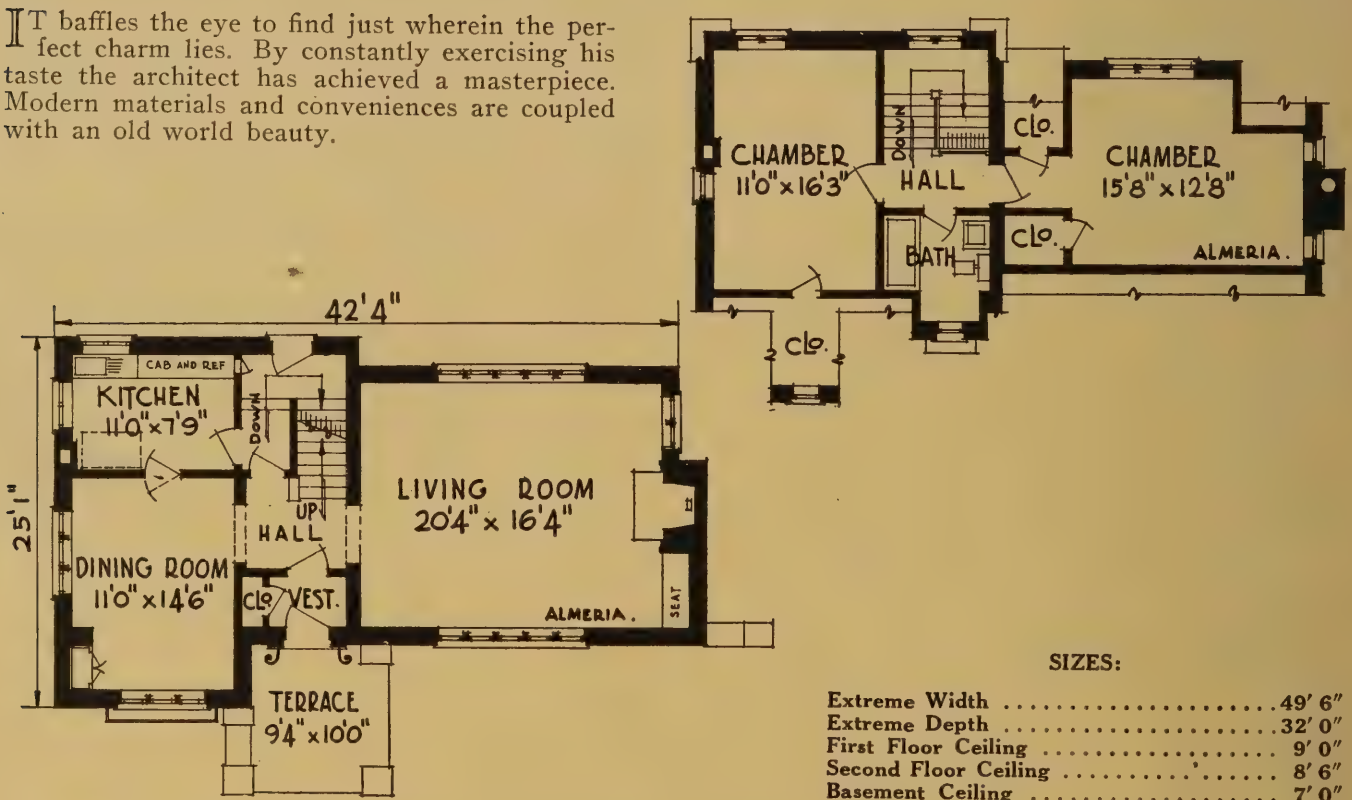


5 Rooms and Bath

"The ALMERIA"

42 Ft. 4 in. Wide x 25 Ft. 1 in. Deep

IT baffles the eye to find just wherein the perfect charm lies. By constantly exercising his taste the architect has achieved a masterpiece. Modern materials and conveniences are coupled with an old world beauty.



SIZES:

Extreme Width	49' 6"
Extreme Depth	32' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

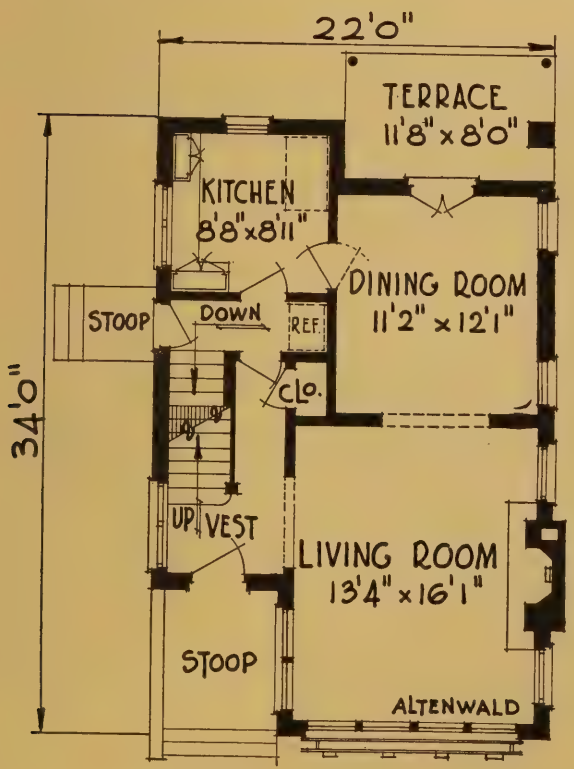
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



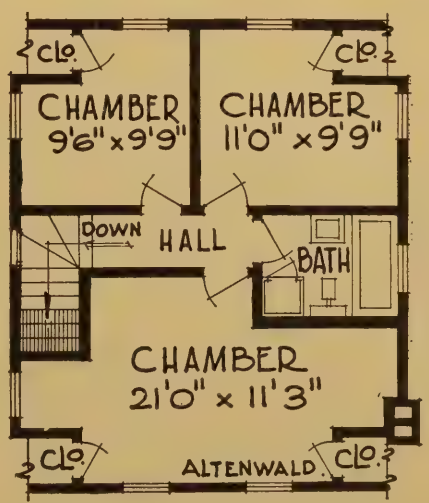
6 Rooms and Bath

"The ALTENWALD"

22 Ft. Wide x 26 Ft. Deep



THE "Altenwald" belying its rich appearance is moderate in cost. The face brick veneer and stucco is tastily contrasted. The open terrace in rear when surrounded with flowers will be a popular spot on summer nights.



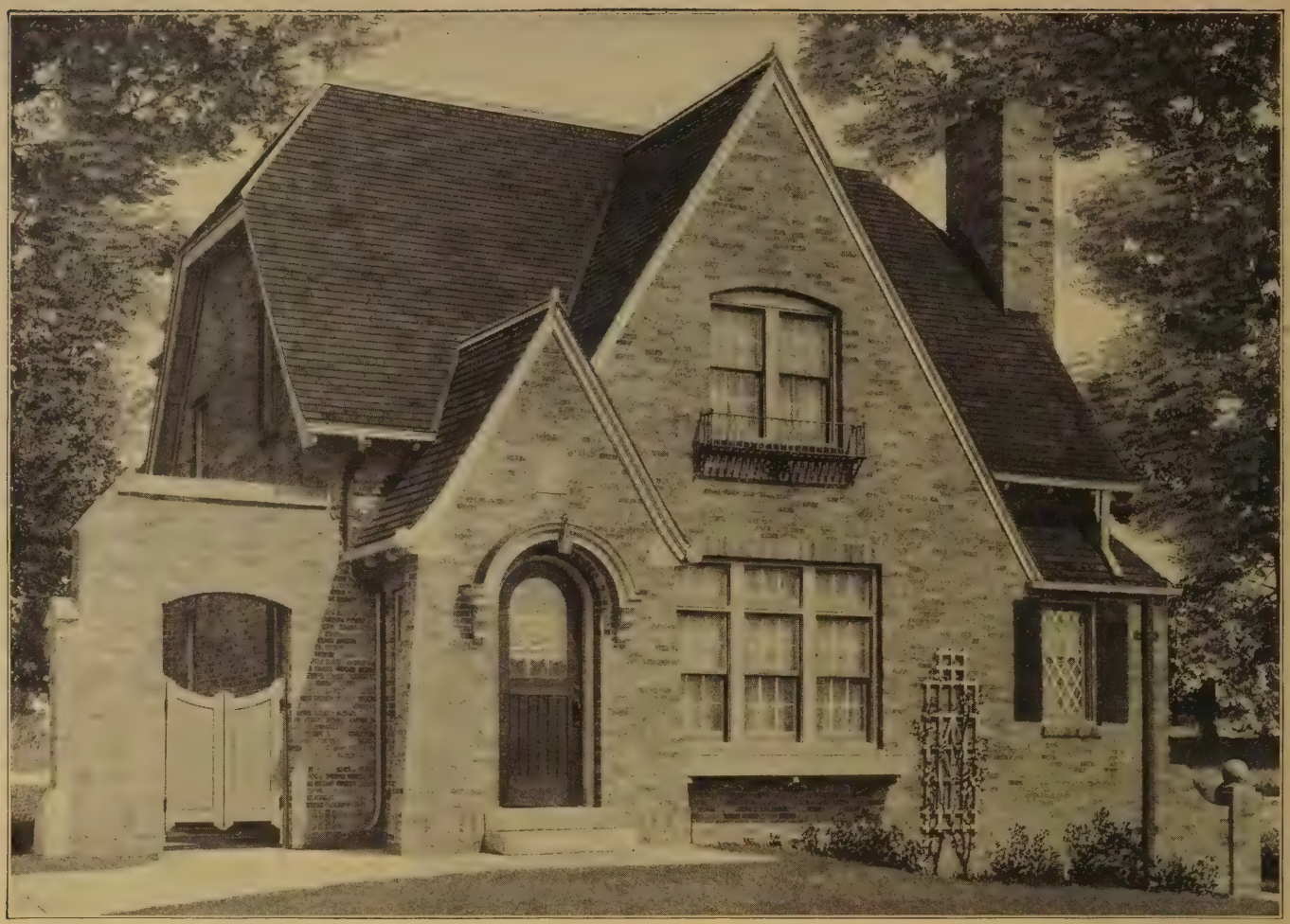
SIZES:

Extreme Width	29' 0"
Extreme Depth	40' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

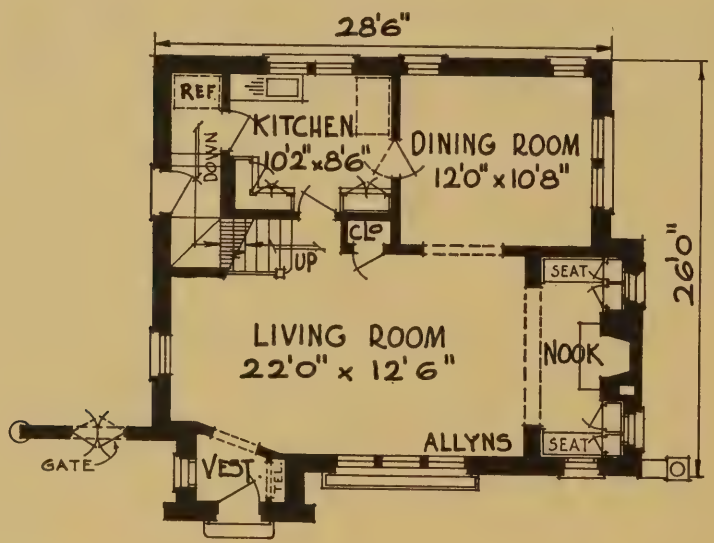
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



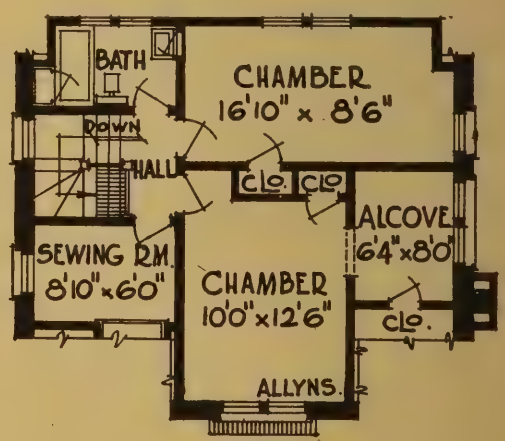
5 Rooms, Bath, Nook, Alcove and Sewing Room

"The ALLYNS"

28 Ft. 6 in. Wide x 26 Ft. Deep



A SMALL brick home of the English type. The two front gables give individuality without eccentricity to the exterior. Built in seat and bookcases in the nook, and a built in linen chest in the sewing room are conveniences of the interior. Stable construction, attractive interior arrangement, and a distinctive architectural style mark the "Allyns."



SIZES:

Extreme Width	42′ 3″
Extreme Depth	32′ 3″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) Set of **Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

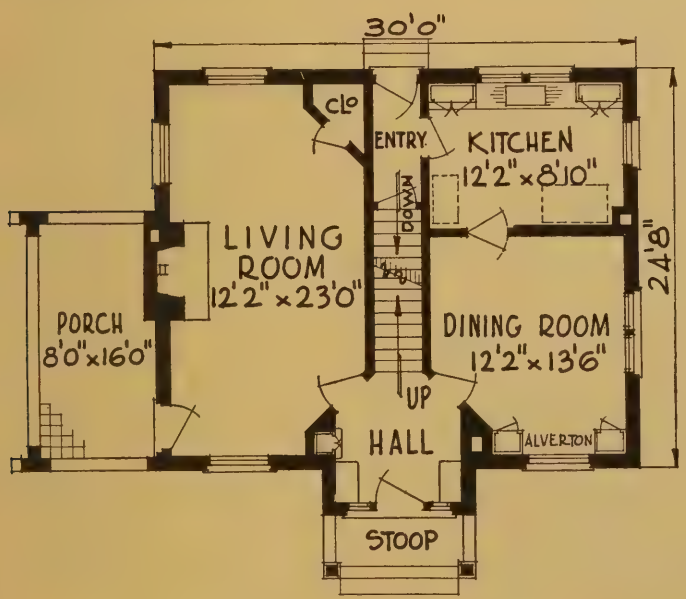
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



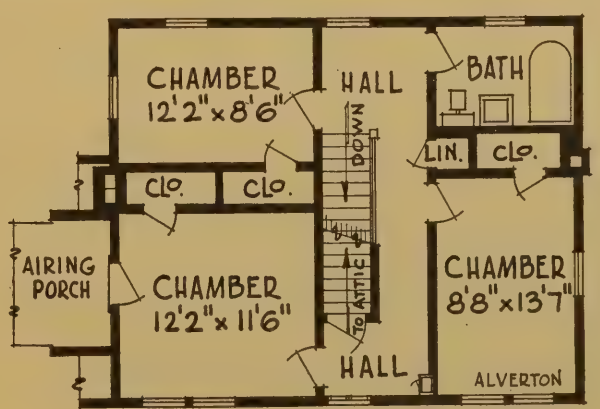
6 Rooms and Bath

"The ALVERTON"

30 Ft. Wide x 24 Ft. 8 In. Deep



STANDING in its perfect beauty the "Alverton" is a home to be admired. By using both face brick veneer and shingles a deep rich color scheme is made possible. Inside there are many conveniences such as a telephone cabinet, clothes chute, and many other modern utilities.



SIZES:

Extreme Width	41' 0"
Extreme Depth	34' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



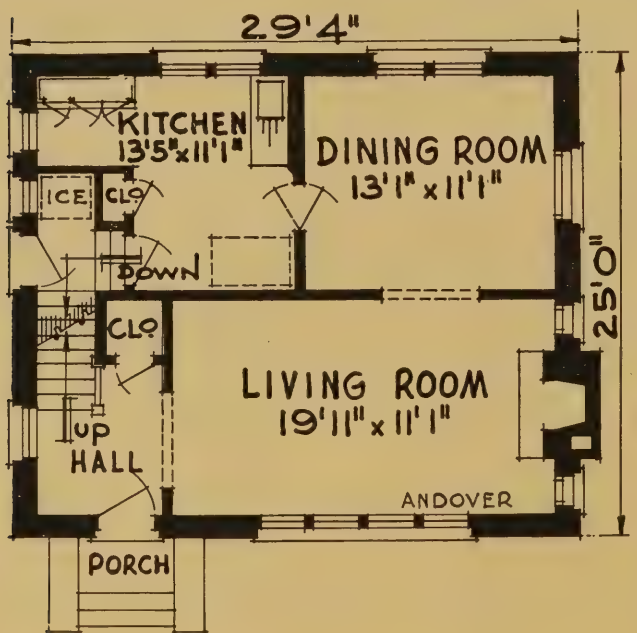
6 Rooms and Bath

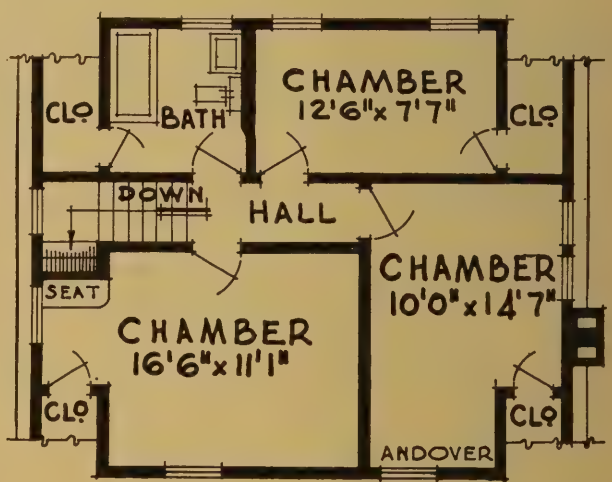
"The ANDOVER"

29 Ft. 4 In. Wide x 25 Ft. Deep

THE Andover presents such a pleasing contrast in the materials used that it never fails to draw the attention of home lovers.

The first story has solid brick for outside walls while the gables and dormers are frame with stucco paneled finish. It is well designed, substantial of construction, and of moderate cost.





SIZES:

Extreme Width	32'0"
Extreme Depth	31'0"
First Floor Ceiling	9'0"
Second Floor Ceiling	8'6"
Basement Ceiling	7'0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

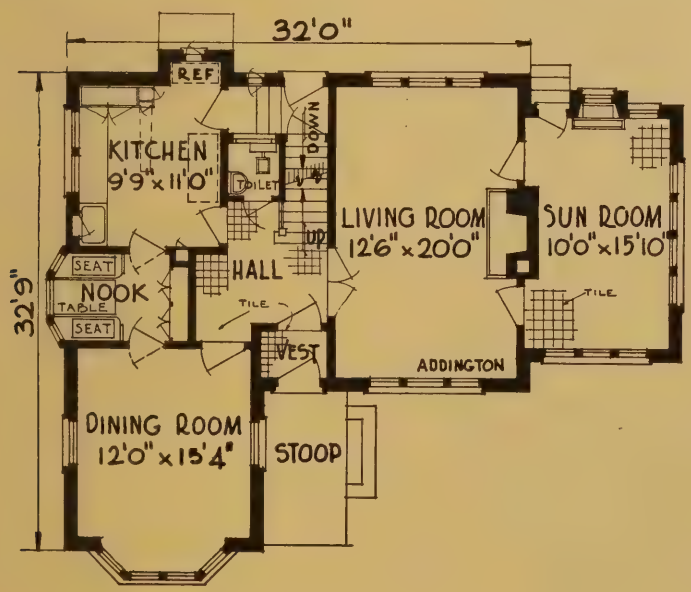
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms, Bath, Sun Room, Dining Nook and Sewing Room

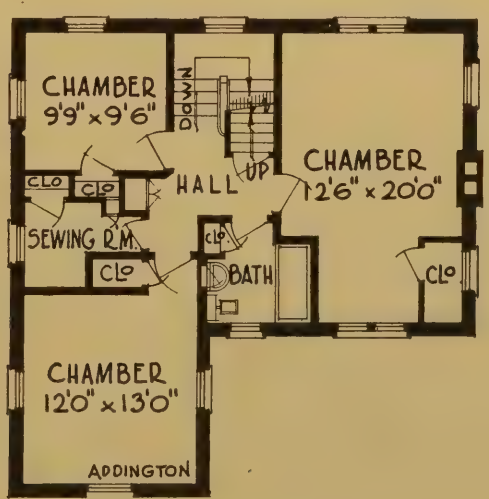
"The ADDINGTON"

32 Ft. Wide x 32 Ft. 9 in. Deep



A COMFORTABLE home of stately beauty constructed with brick veneered outside walls. A tile sun room and hall, and a cozy breakfast nook are but a few of the many interior features.

The Addington will be appreciated by those desiring largeness of rooms with all the modern comforts they offer.



SIZES:

Extreme Width	44' 0"
Extreme Depth	35' 9"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

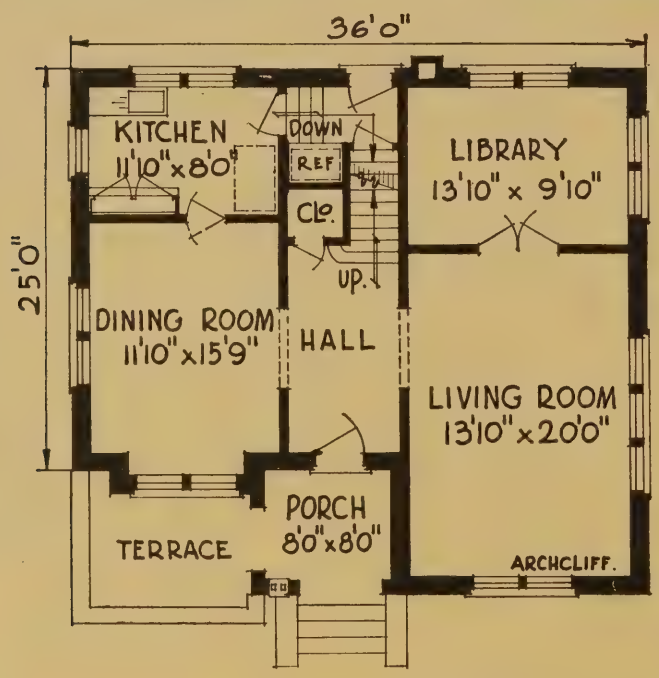
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



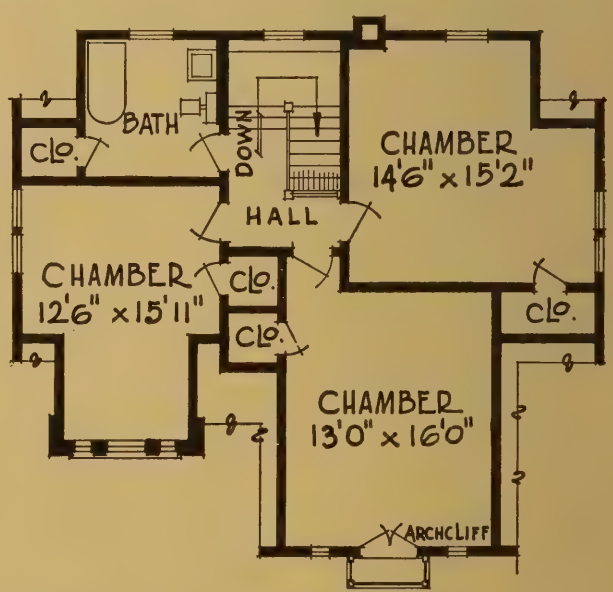
6 Rooms, Bath and Library

"The ARCHCLIFF"

36 Ft. Wide x 32 Ft. 8 in. Deep



RICH in appearance, permanent in quality and comfortable in arrangement, the "Archcliff" embodies all the virtues of a fine home. To enumerate the special features would take too long. The floor plan helps to tell the story. Face brick well bonded to common brick backing is used for outside walls.



SIZES:

Extreme Width	38' 6"
Extreme Depth	38' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

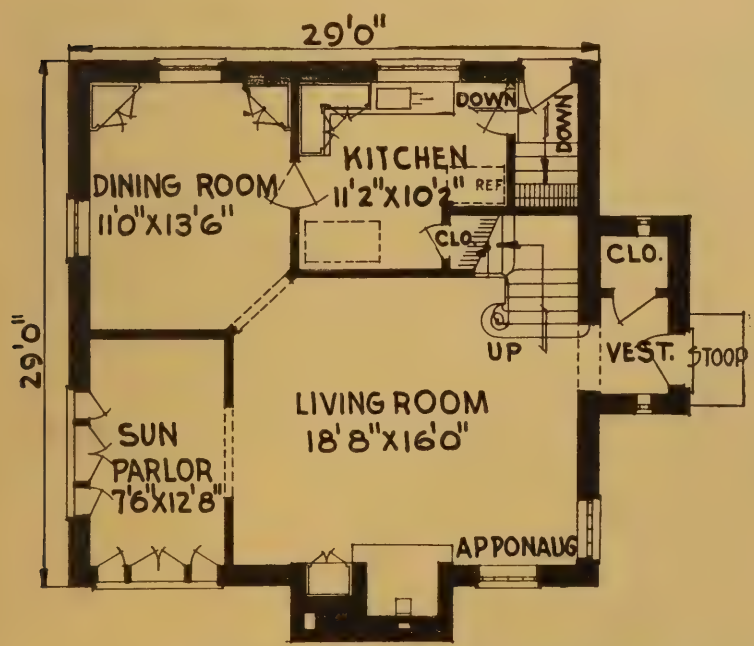


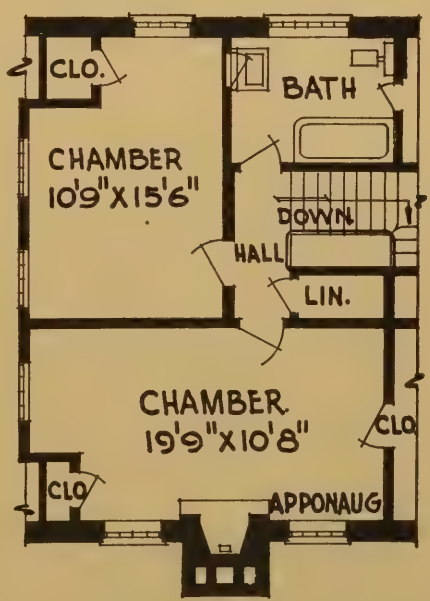
5 Rooms, Bath and Sun Parlor

"The APPONAUG"

29 Ft. Wide x 29 Ft. Deep

PRESENTING a rustic appearance the "Apponaug" has an old world charm. It is a strictly modern home equipped with steel sash and all the present day conveniences, yet it retains an antique beauty. A more delightful combination would be hard to find. Study the floor plan and appreciate its excellence.





SIZES:

Extreme Width	38' 0"
Extreme Depth	32' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

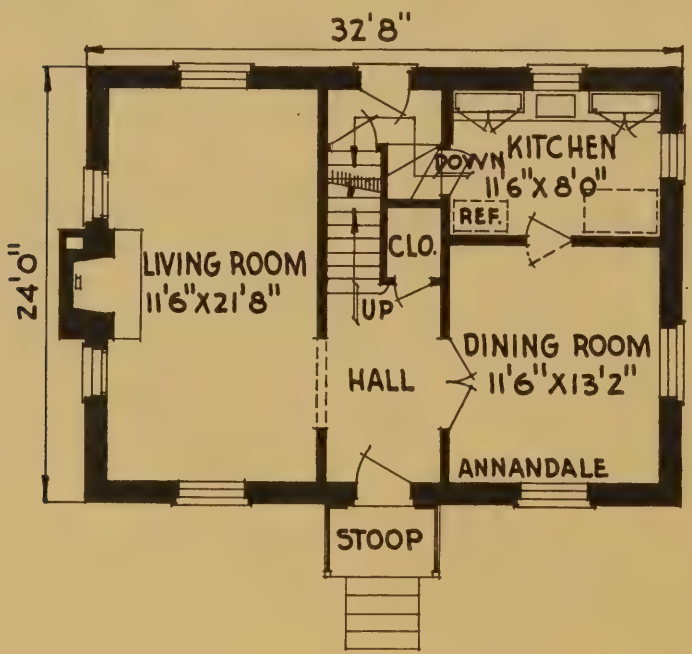


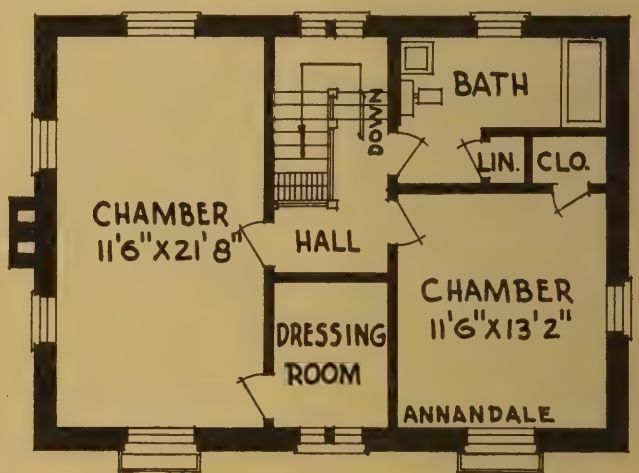
5 Rooms and Bath

"The ANNANDALE"

32 Ft. 8 In. Wide x 24 Ft. Deep

A HOME of stability possessing the domestic virtues of simple beauty and comfortable living. Face brick is used all around giving a rich and uniform appearance. The shutters, windows and entrance are necessary in designing this New England colonial dwelling. The dressing room off the large chamber has many useful possibilities.





SIZES:

Extreme Width	35' 0"
Extreme Depth	33' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

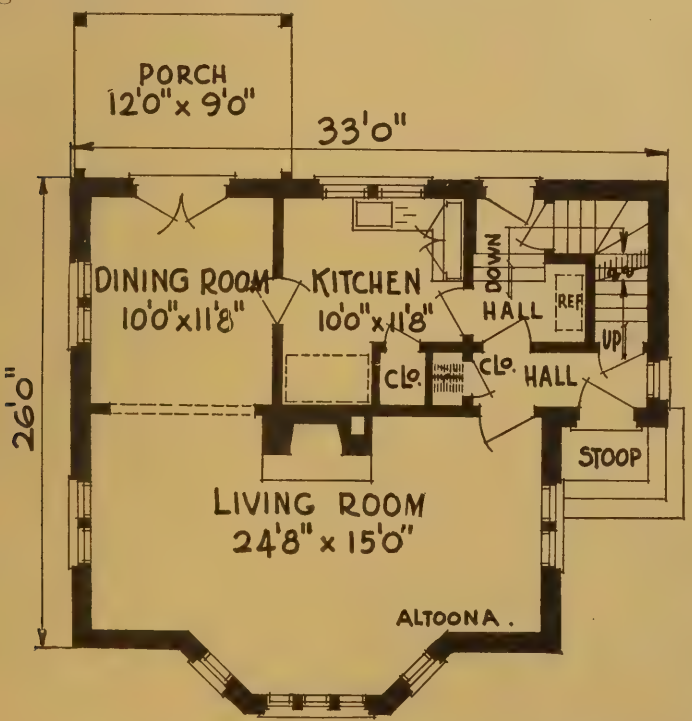


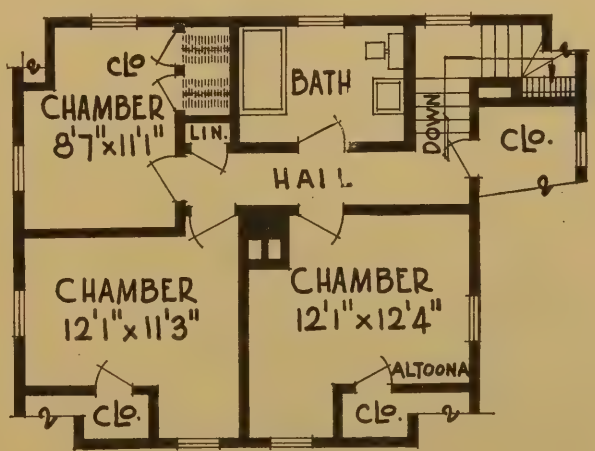
6 Rooms and Bath

"The ALTOONA"

33 Ft. Wide x 26 Ft. Deep

THE side entrance is quite unique, set apart as it is. The picture of this handsome home is a fine illustration of face brick with wide mortar joints and half timbered stucco gables. The interior is equally tasty and attractive, note the splendid living room, popular closets and general conveniences.





SIZES:

Extreme Width	35' 0"
Extreme Depth	40' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

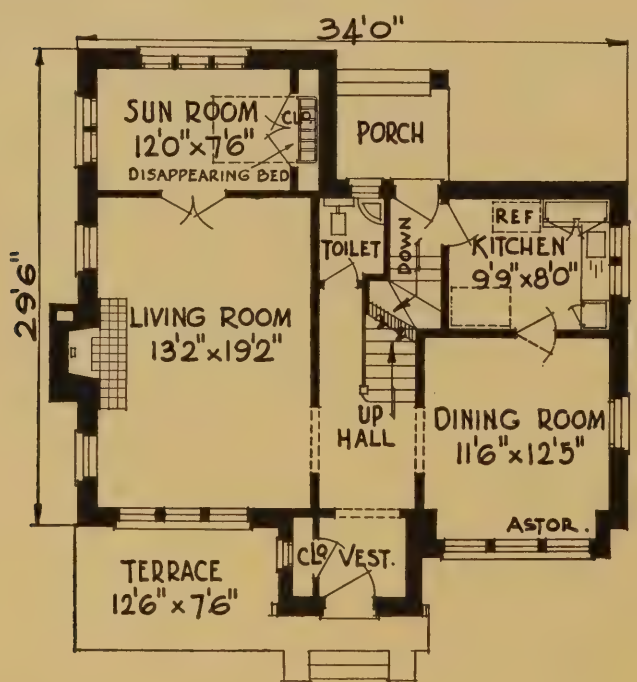


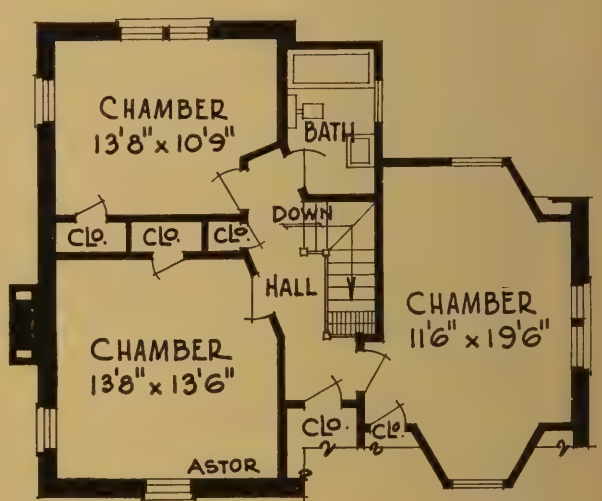
6 Rooms, Bath and Sun Room

"The ASTOR"

34 Ft. Wide x 29 Ft. 6 In. Deep

AS YOU know a brick home insures coolness in summer and warmth in winter—in short, year 'round comfort. When face brick is used all around a decided attractiveness is obtained. The disappearing bed in the sun room makes in reality four bedrooms for the "Astor."





SIZES:

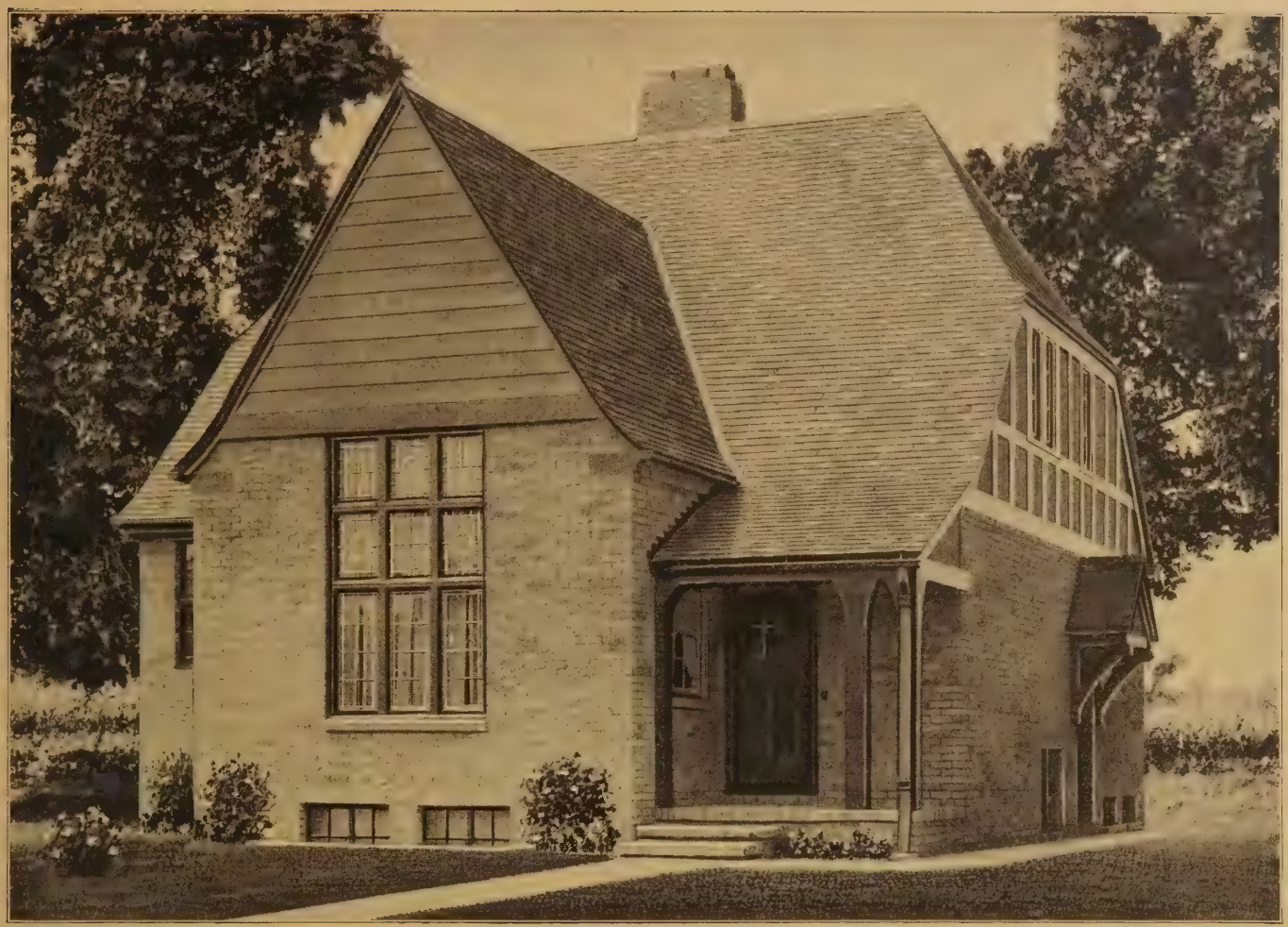
Extreme Width	37' 6"
Extreme Depth	39' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

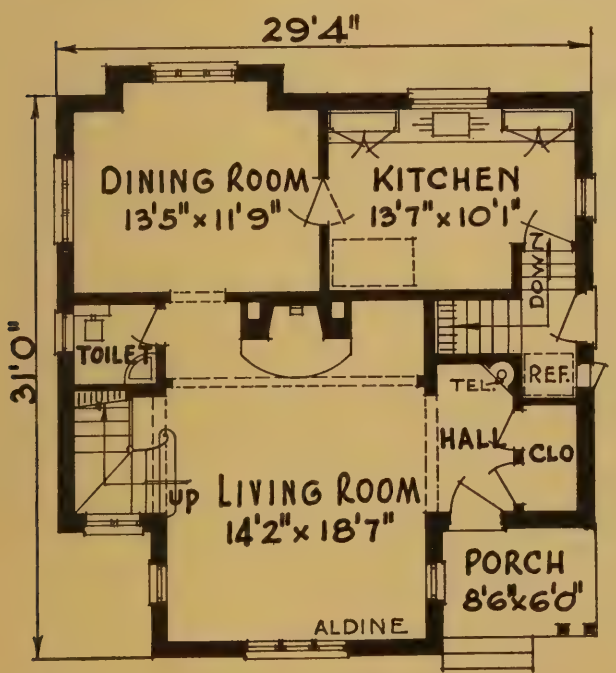
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



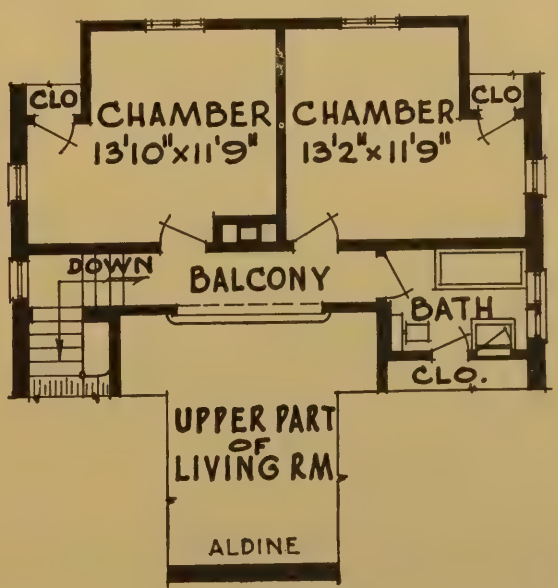
5 Rooms, Bath and Toilet

"The ALDINE"

31 Ft. Wide x 29 Ft. 4 in. Deep



TO create something different without becoming eccentric is a problem of the architect. He seems to have solved it perfectly here, for the "Aldine," rich, but not gaudy. The living room is a dream, rising two stories and enhanced by the big ornamental window, overlooking balcony and majestic fireplace.



SIZES:

Extreme Width	30′ 0″
Extreme Depth	33′ 9″
First Floor Ceilings—(Living Rm. 16′ 4″) Bal.	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

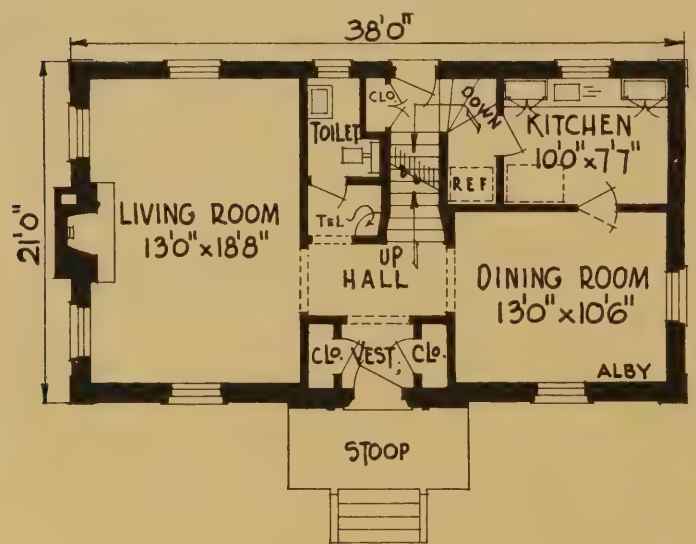


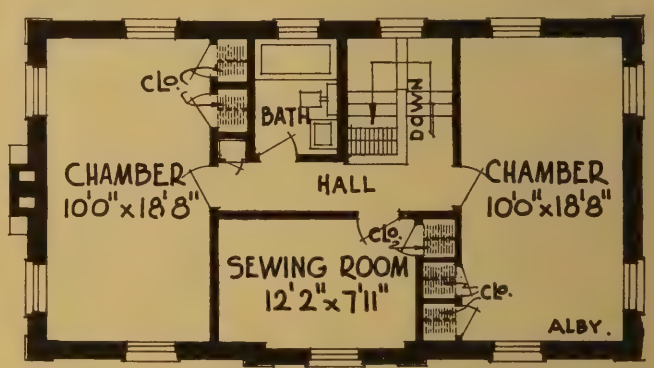
5 Rooms, Bath, Toilet and Sewing Room

"The ALBY"

38 Ft. Wide x 21 Ft. Deep

A HOME of dignity and permament pleasure. The entrance is imposing yet inviting. The living room is apart by itself giving it an individuality. There are many features to be considered; such as a toilet on the first floor, a built-in telephone cabinet, space saving closet fixtures and the sewing room upstairs. Attractively done in face brick and capped with a beautiful tile roof the "Alby" is a home to save for.





SIZES:

Extreme Width	42' 0"
Extreme Depth	32' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

FACE BRICK EXPOSED WALLS COMBINED WITH TILE ROOF MEANS A SOLID DURABLE HOME WITH A VERY PLEASING APPEARANCE.

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

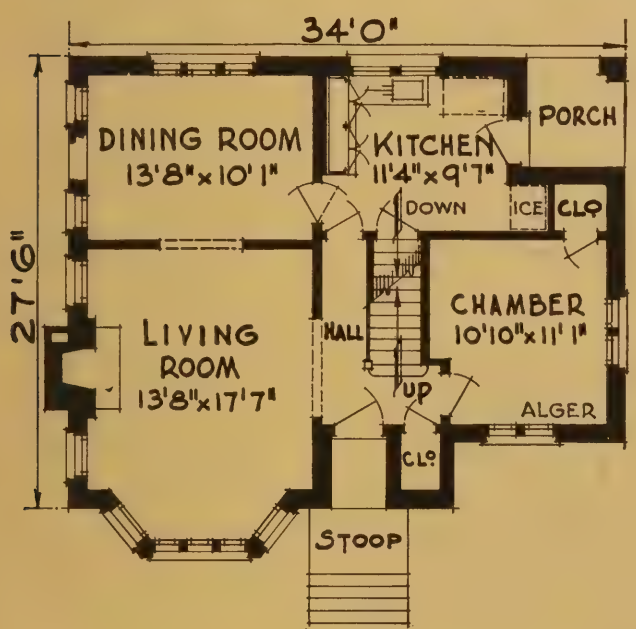
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



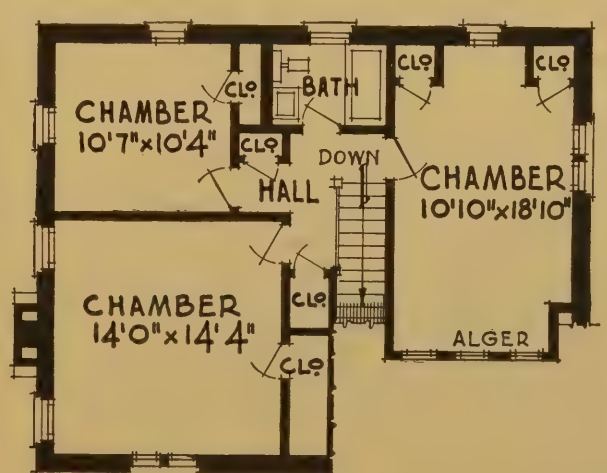
7 Rooms and Bath

"The ALGER"

34 Ft. Wide x 27 Ft. 6 In. Deep



A HOME of solid brick, English type construction, designed to shelter and protect the happy family for generations. An abundance of windows provide the health-giving genial sunshine. A home bright with the thousand joys of the year and the happy pleasures 'round the glowing hearth.



SIZES:

Extreme Width	36' 0"
Extreme Depth	35' 0"
First Floor Ceiling	8' 8"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

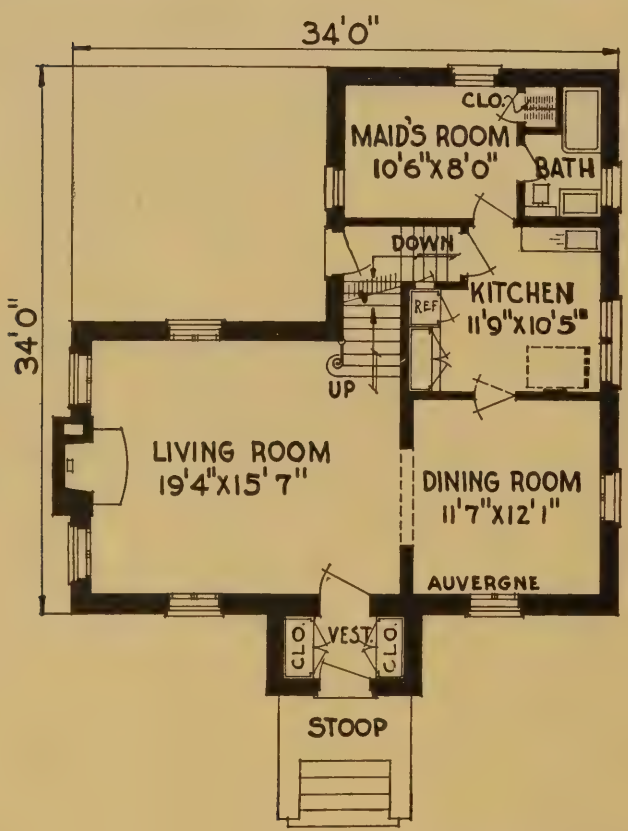
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



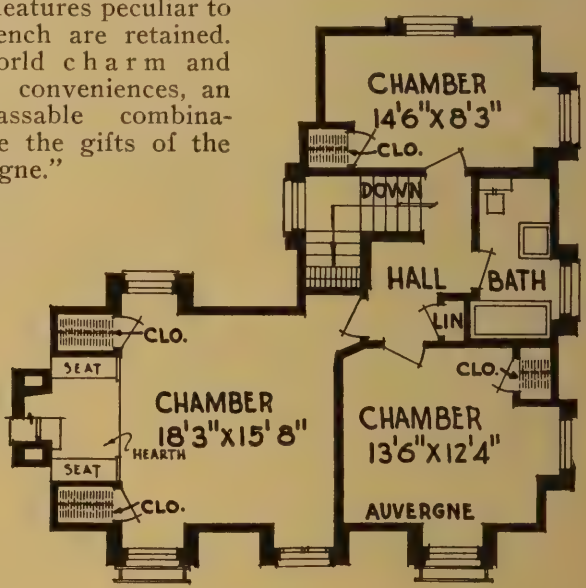
7 Rooms and Bath

"The AUVERGNE"

34 Ft. Wide x 34 Ft. Deep



THE beauty and taste of the French is perfectly expressed in this charming home. The Mansard roof, the entrance and balcony, the towering chimney all the features peculiar to the French are retained. Old world charm and modern conveniences, an unsurpassable combination are the gifts of the "Auvergne."



SIZES:

Extreme Width	35' 9"
Extreme Depth	43' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms** **$20.00**

Secure above plans, etc., from your local Lumber or Building Material Dealer.

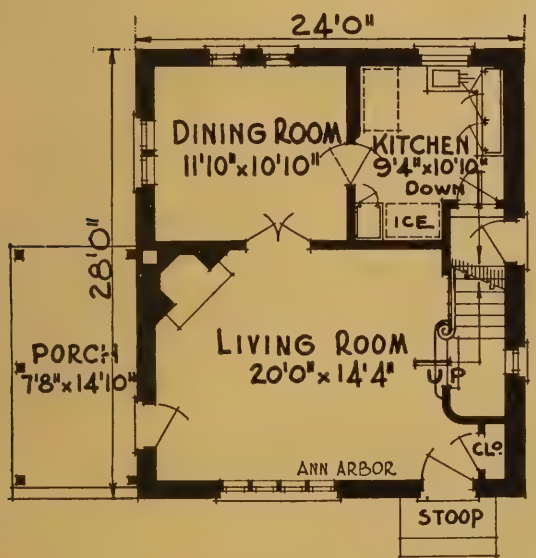
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



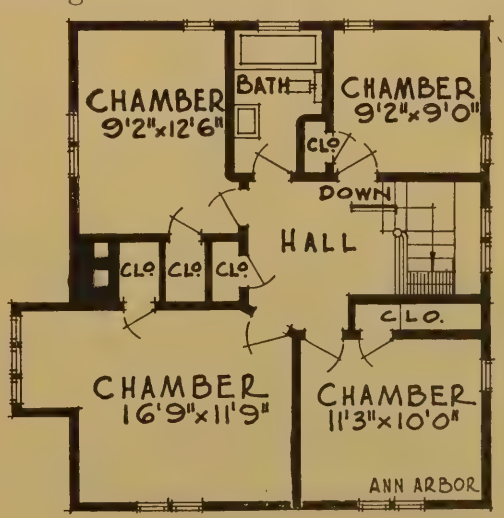
7 Rooms and Bath

"The ANN ARBOR"

24 Ft. Wide x 28 Ft. Deep



OLD English Homes with effective half timbered gables are always noticeable for their pleasing appearance of quiet dignity and seclusiveness. The first story outside walls are of solid brick while the second floor is built of frame construction with metal lath and stucco covering for the outside walls. On account of the reasonable cost of such homes, they deserve careful consideration by the builder. Ideal home for corner lot.



SIZES:

Extreme Width	35'0"
Extreme Depth	34'0
First Floor Ceiling	9'0"
Second Floor Ceiling	8'6"
Basement Ceiling	7'0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

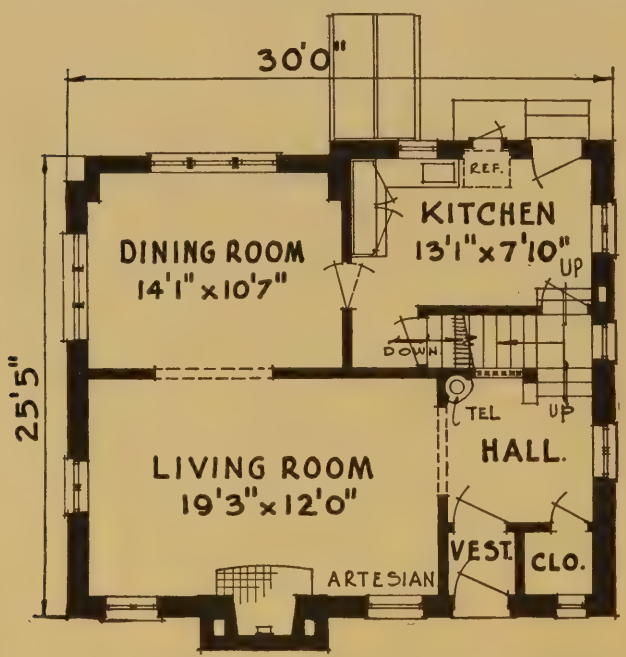


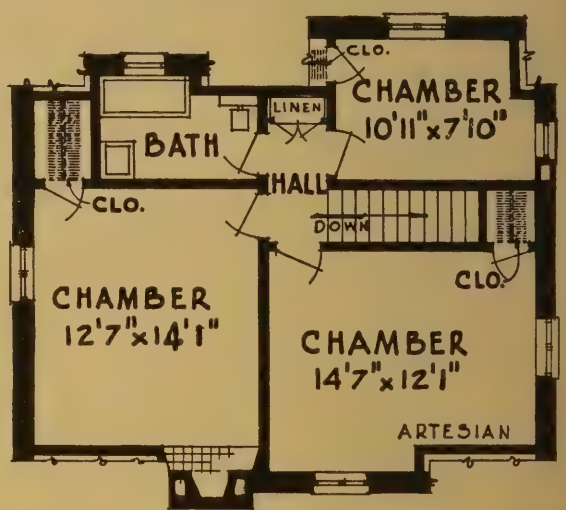
6 Rooms and Bath

"The ARTESIAN"

30 Ft. Wide x 25 Ft. 5 In. Deep

FETCHING in its picturesqueness the "Artesian" lends to the artistic, rather than the conventional. Face brick are laid in rustic manner for outside wall, while the roof is random laid slate. Such utilities as kitchen cabinets, telephone cabinet and space saving closet fixtures are part of the equipment.





SIZES:

Extreme Width	31' 6"
Extreme Depth	37' 3"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

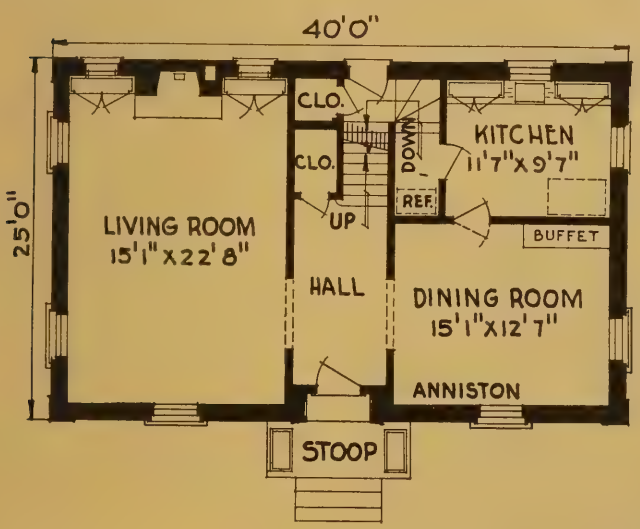


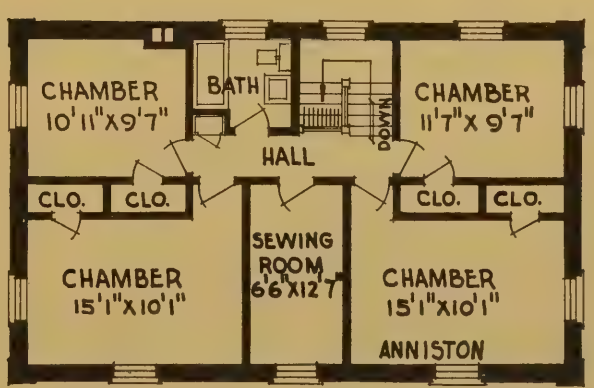
7 Rooms, Bath and Sewing Room

"The ANNISTON"

40 Ft. Wide x 25 Ft. Deep

STATELY and permanent the "Anniston" enjoys the qualities of face brick construction. The stone entrance is dignified and decorative. The square type of home is always popular and economical for it affords the best opportunity for convenient room arrangement as seen in this floor plan. Four chambers, bath and sewing room constitute the second floor.





SIZES:

Extreme Width	43' 0"
Extreme Depth	33' 6"
First Floor Ceiling	8' 8"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

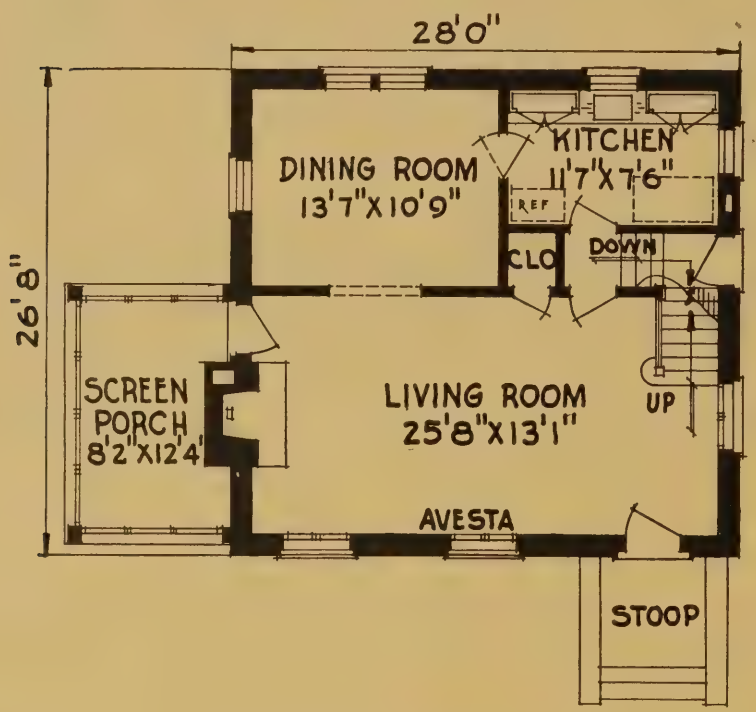


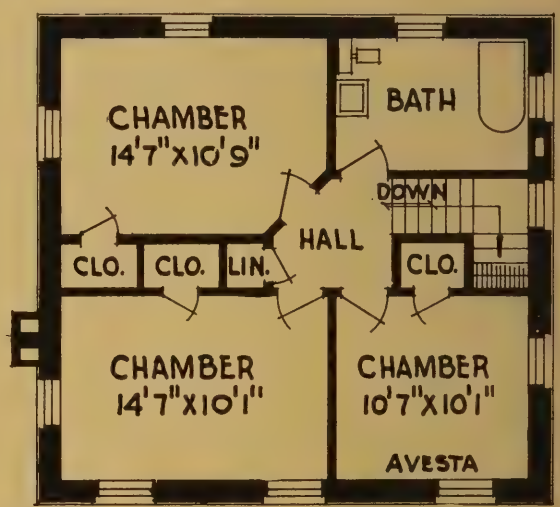
6 Rooms and Bath

"The AVESTA"

28 Ft. Wide x 26 Ft. 8 In. Deep

A HOME should be considered from the investing as well as artistic point of view. The permanence of the "Avesta" makes it a good investment and its simple beauty is one you will not tire of. This is achieved chiefly by using well jointed face brick for exposed walls.





SIZES:

Extreme Width	39' 0"
Extreme Depth	36' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

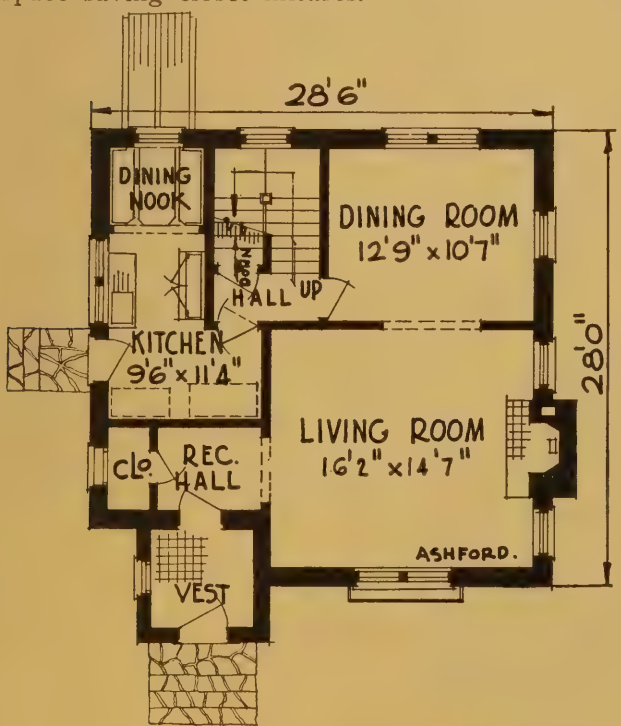


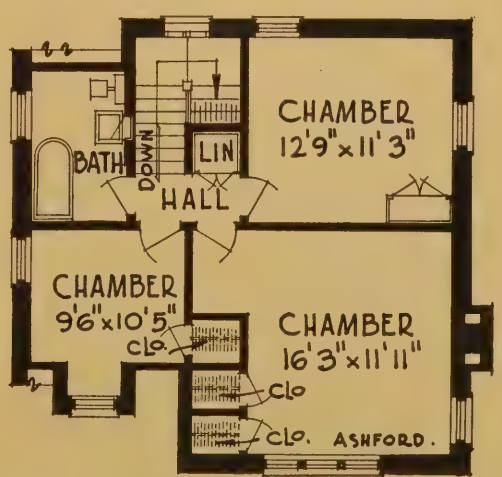
6 Rooms, Bath and Dining Nook

"The ASHFORD"

28 Ft. 6 in. Wide x 28 Ft. Deep

WORDS fail to express the charm of the "Ashford." Whitened face brick, shutters, many gables, lends a mature and rustic atmosphere. Inside everything is modern from the linen cabinets to the space saving closet fixtures.





SIZES:

Extreme Width	**35' 0"**
Extreme Depth	**44' 0"**
First Floor Ceiling	**9' 0"**
Second Floor Ceiling	**8' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

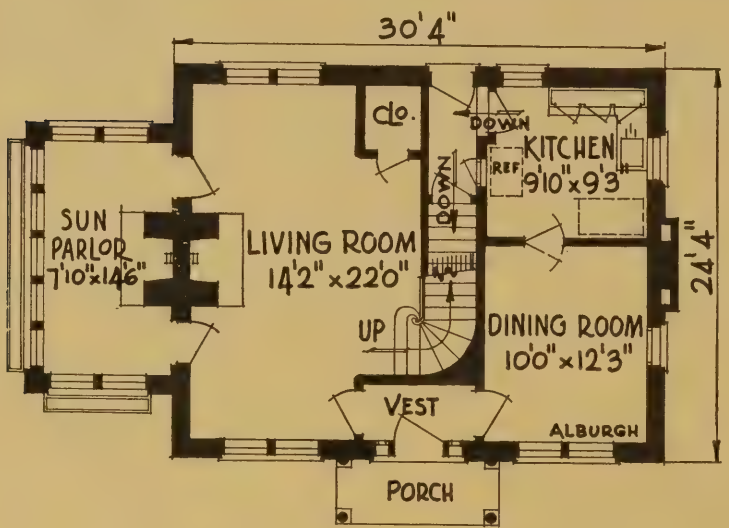


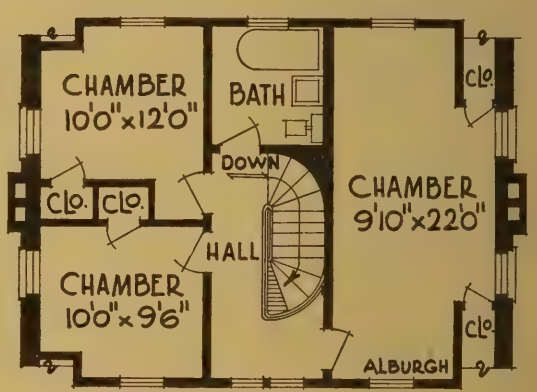
6 Rooms, Bath and Sun Parlor

"The ALBURGH"

30 Ft. 4 In. Wide x 24 Ft. 4 In. Deep

THE Dutch Colonial style is well adapted to face brick as is shown above. The white trim, shutters and touch of siding complete the picture. Inside everything is homey and restful. The double firepace, one opening into the living room and the other into the sun parlor, deserves especial notice.





SIZES:

Extreme Width	43' 6"
Extreme Depth	31' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

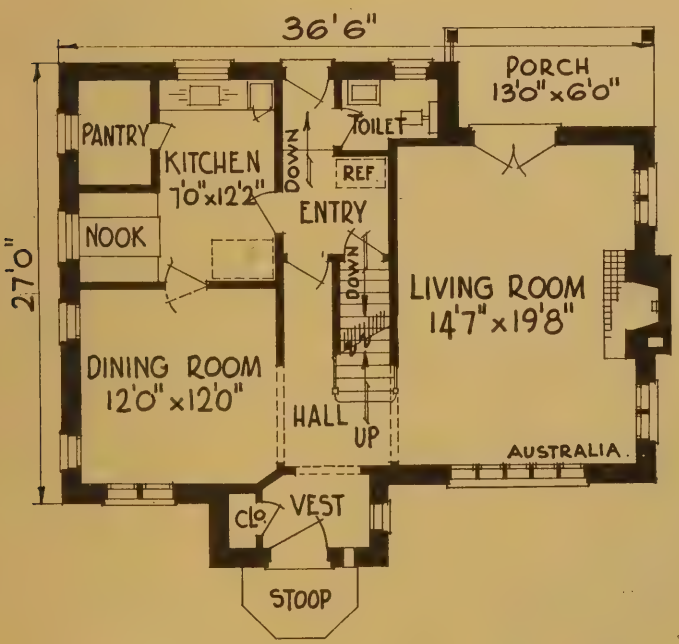


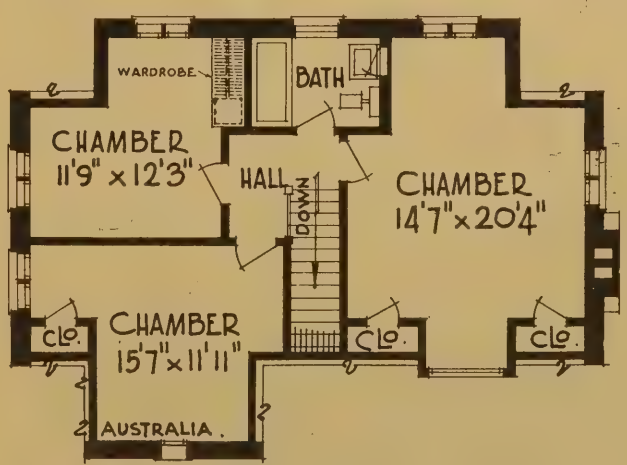
6 Rooms, Bath, Nook and Toilet

"The AUSTRALIA"

36 Ft. 6 In. Wide x 27 Ft. Deep

ANY suburb or community would welcome the addition of the "Australia." Distinctive in style it verily fascinates the eye. Face brick gives a permanent beauty to this home. The entrance is one that would do credit to the best English Manor house. The floor plan deserves careful study.





SIZES:

Extreme Width	38' 0"
Extreme Depth	38' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

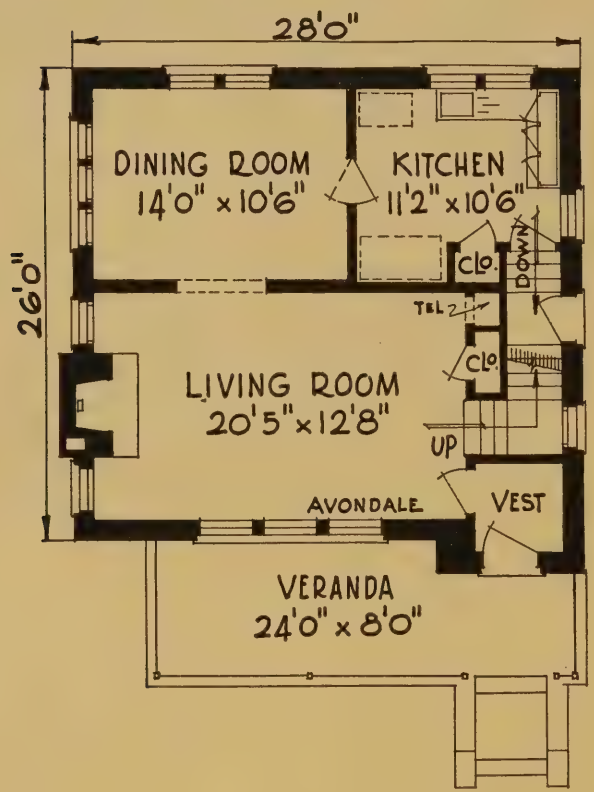
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



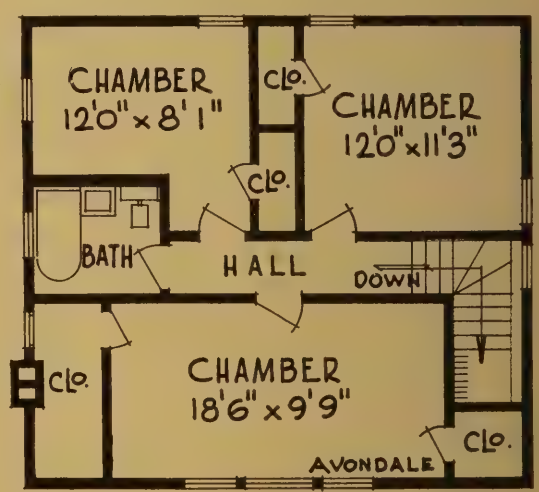
6 Rooms and Bath

"The AVONDALE"

28 Ft. Wide x 26 Ft. Deep



THE "Avondale" is a monumental home. Placed anywhere it would dominate its entire surroundings. A harmony is achieved through balancing face brick, stucco, timbers and shingles in the construction. Furthermore it is well within reach of the moderate purse.



SIZES:

Extreme Width	31' 0"
Extreme Depth	41' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications and Two (2) Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

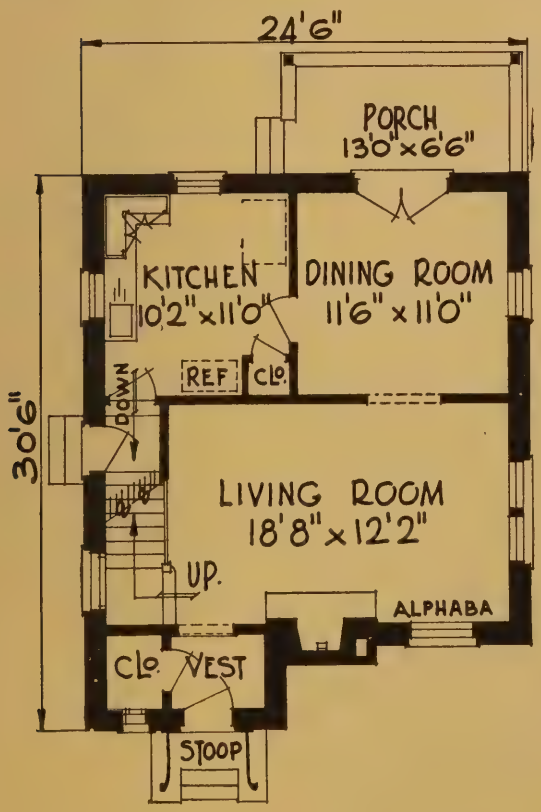
HOME BUILDERS CATALOG CO.



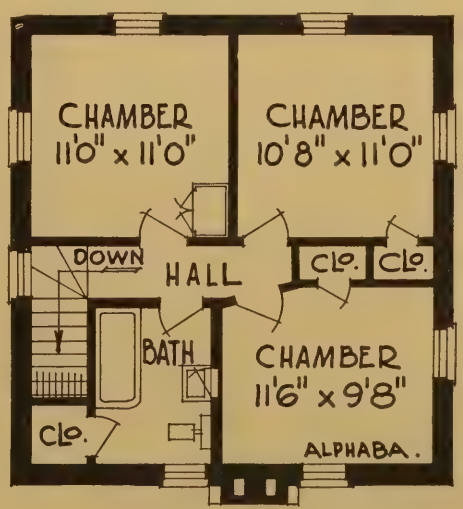
6 Rooms and Bath

"The ALPHABA"

24 Ft. 6 in. Wide x 30 Ft. 6 in. Deep



A FACE brick surface is very satisfying to the eye and when shaped in such attractive ways is perfect. The entrance is a masterpiece, distinctive and imposing. The arrangement inside is comfortable and compact.



SIZES:

Extreme Width	27' 6"
Extreme Depth	43' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO
Chicago.—Rochester.—Detroit.—New York.

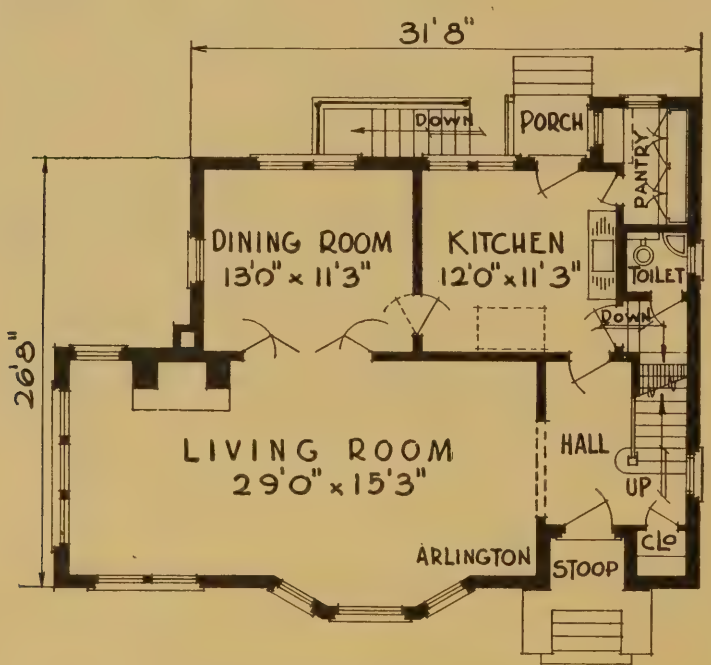


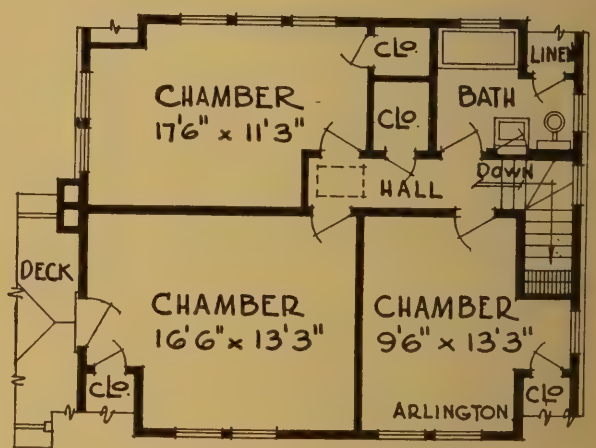
6 Rooms, Bath and Toilet

"The ARLINGTON"

31 Ft. 8 in. Wide x 26 Ft. 8 in. Deep

BRICK Veneer below, and shingles above, accounts for the singular attractiveness of the "Arlington." One glance at the living room lined with windows, is enough to satisfy the most particular.





SIZES:

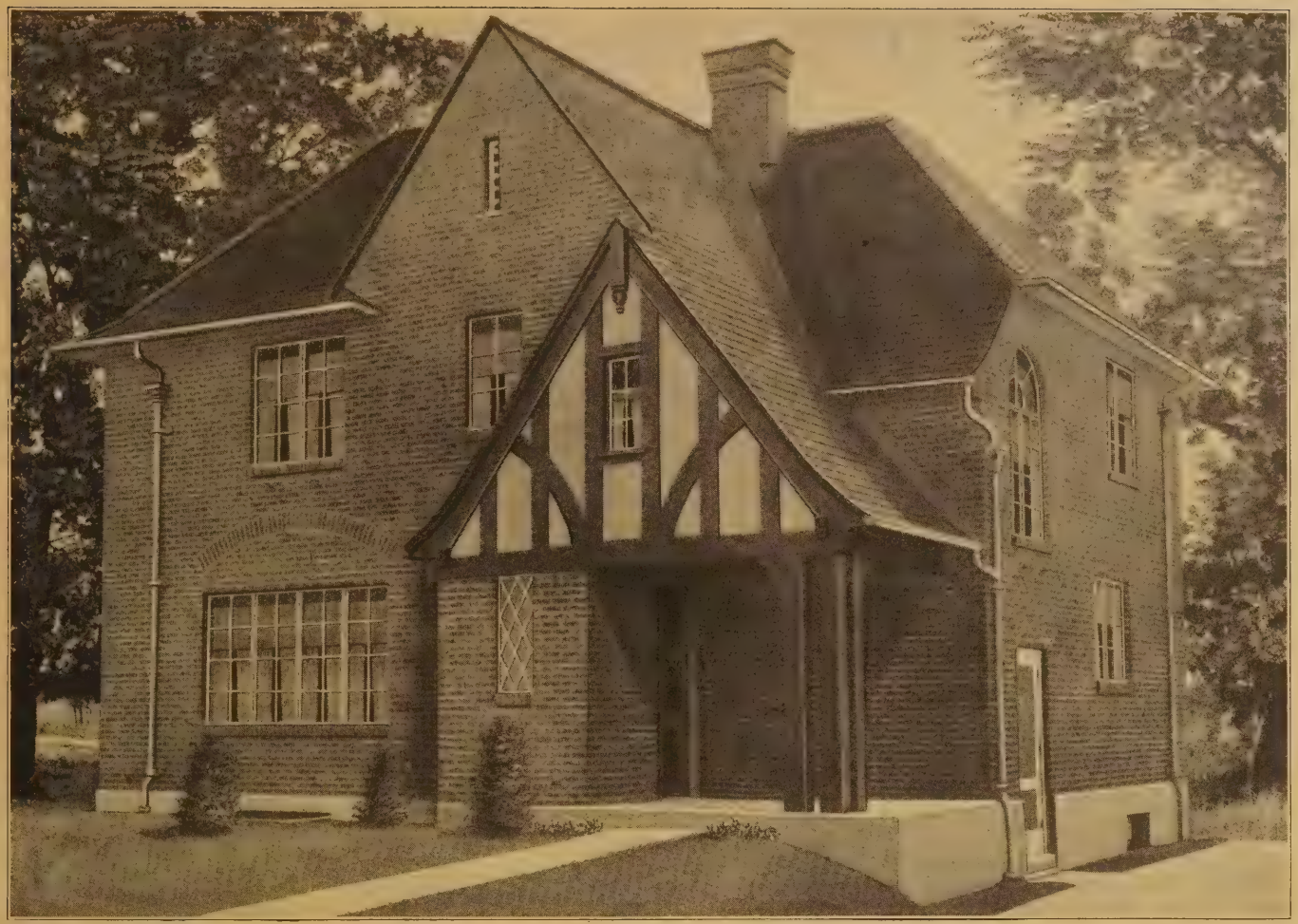
Extreme Width	42' 6"
Extreme Depth	37' 4"
First Floor Ceiling	8' 9"
Second Floor Ceiling	8' 3"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

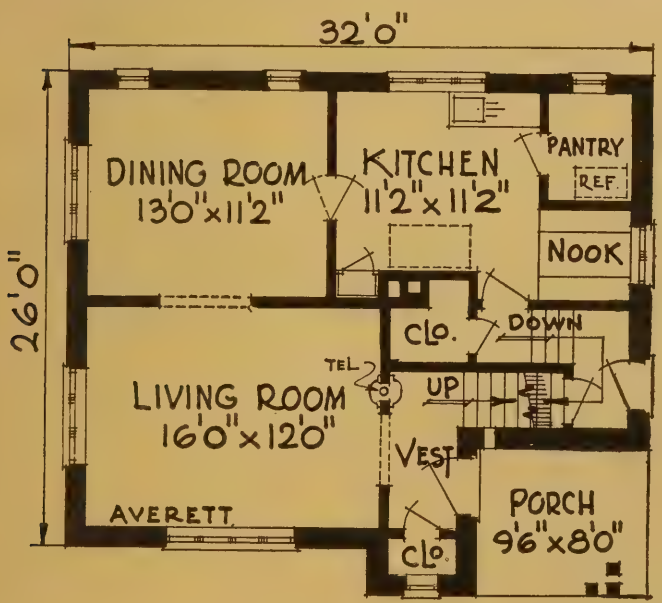


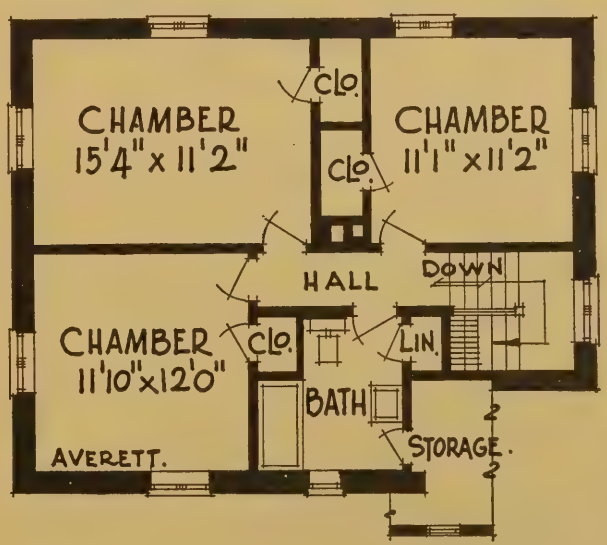
6 Rooms, Bath and Dining Nook

"The AVERETT"

32 Ft. Wide x 26 Ft. Deep

THERE are so many pleasing details in the above home that your eye is content to wander here and there for some time. The little touch of stucco in the porch gable brightens the whole effect considerably. Steel sash are employed throughout. Picture for a moment the stair landing with its arched window. Very attractive and pleasing is the rest of the house.





SIZES:

Extreme Width	35' 6"
Extreme Depth	30' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

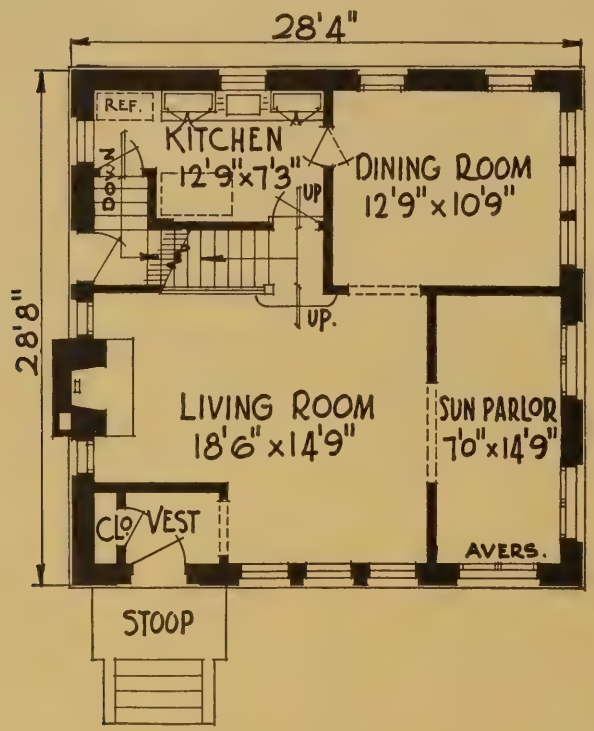


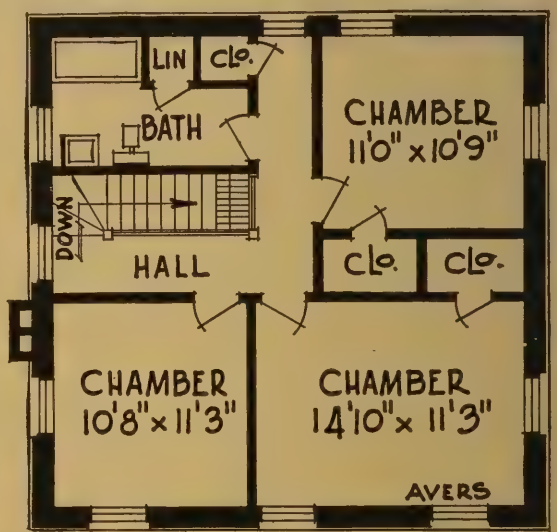
6 Rooms, Bath and Sun Parlor

"The AVERS"

28 Ft. 4 In. Wide x 28 Ft. 8 In. Deep

EVERY detail being in perfect taste and in harmony with the whole makes the "Avers" a most magnificent residence. The arched entrance is balanced by the arched casement, the tile roof contrasts perfectly with the face brick. Inside we find the same luxuriousness prevailing.





SIZES:

Extreme Width	33' 0"
Extreme Depth	38' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 4"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

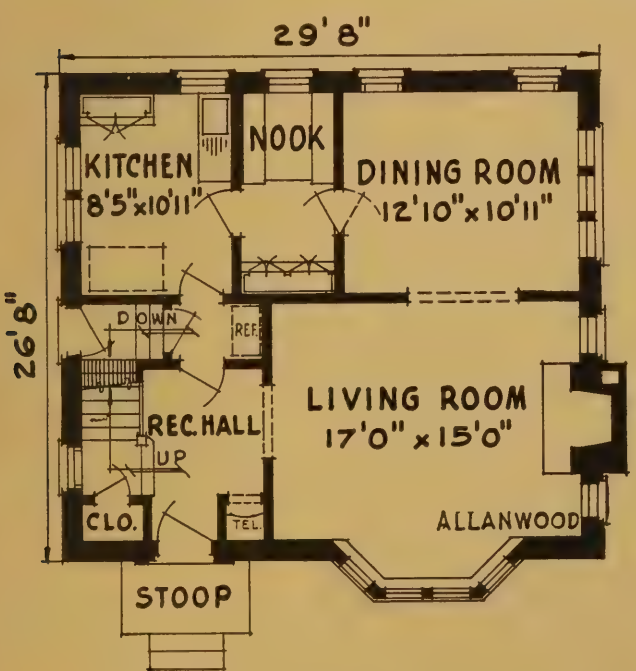


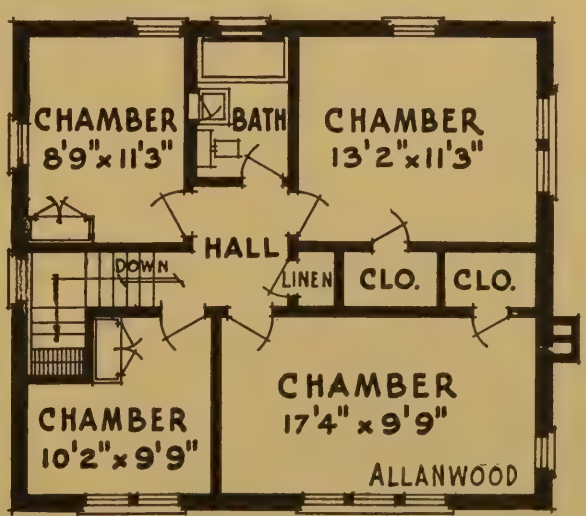
7 Rooms, Bath and Dining Nook

"The ALLANWOOD"

29 ft. 8 in. wide x 26 ft. 8 in. deep

EVERY line in this design bespeaks good taste. The neat entrance, the shuttered windows, the pleasing bay, and the exposed chimney, all blend to make the perfect colonial home. All exposed masonry walls are laid up in face brick.





SIZES:

Extreme Width	32'0"
Extreme Depth	34'0"
First Floor Ceiling	8'6"
Second Floor Ceiling	8'0"
Basement Ceiling	7'0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

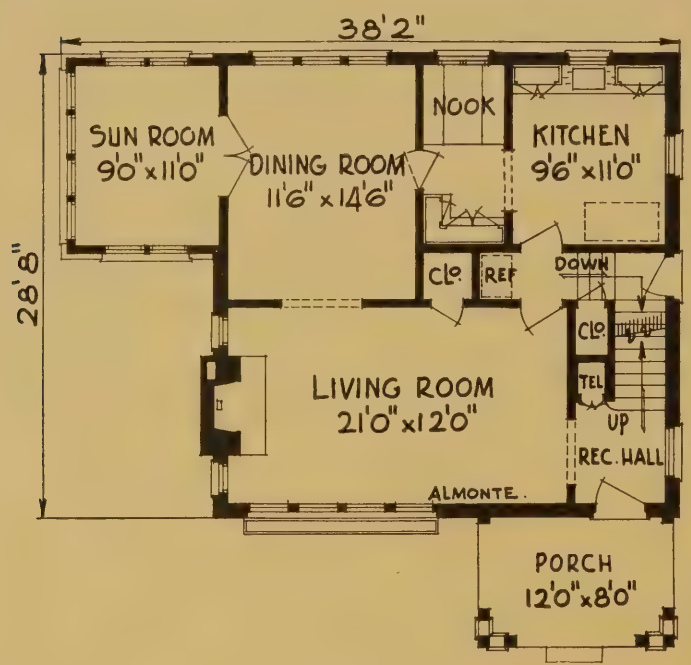


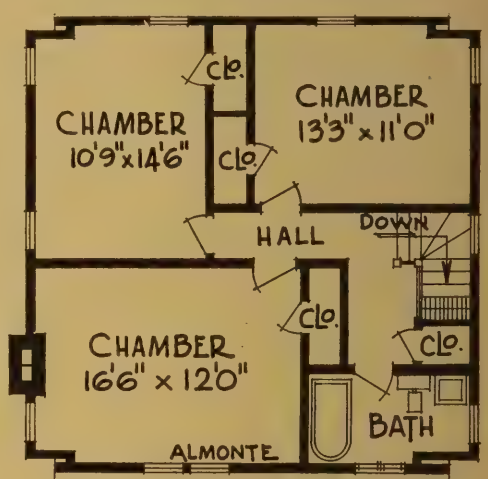
6 Rooms, Bath, Dining Nook and Sun Room

"The ALMONTE"

28 Ft. 8 In. Wide x 28 Ft. 8 In. Deep

HERE is a well designed modern square type home with mansard roof. There is no denying the effectiveness of the alternated shingles. By using face brick for the first story the architect has achieved a handsome combination. The interior is all to be desired.





SIZES:

Extreme Width	41' 0"
Extreme Depth	40' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

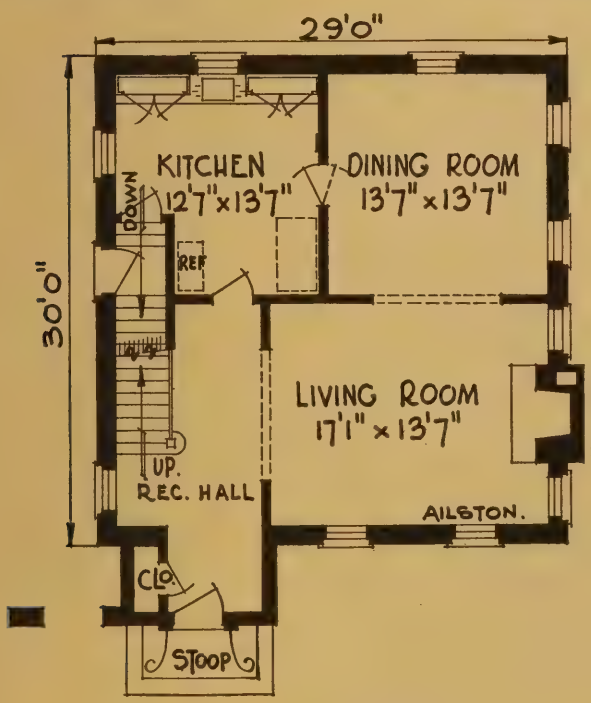
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



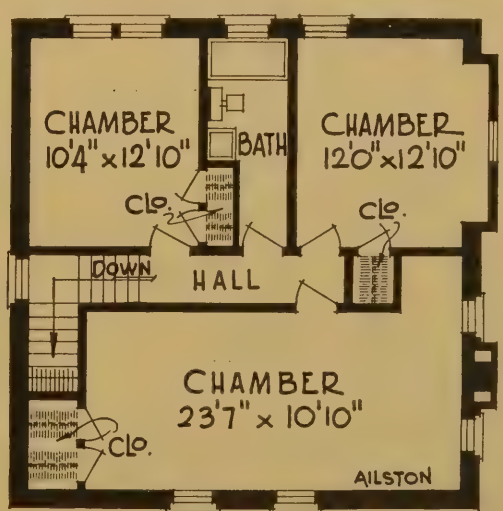
6 Rooms and Bath

"The AILSTON"

29 Ft. Wide x 30 Ft. Deep



A PLEASING home, something different from the ordinary, yet handsome and effective in appearance. The face brick used for exterior walls insures strength and durability. The interior is designed to meet the demands of the most discriminating housekeeper. Convenience and comfort were carefully considered in planning this home. Space saving closets with adjustable coat hangers is an additional modern feature.



SIZES:

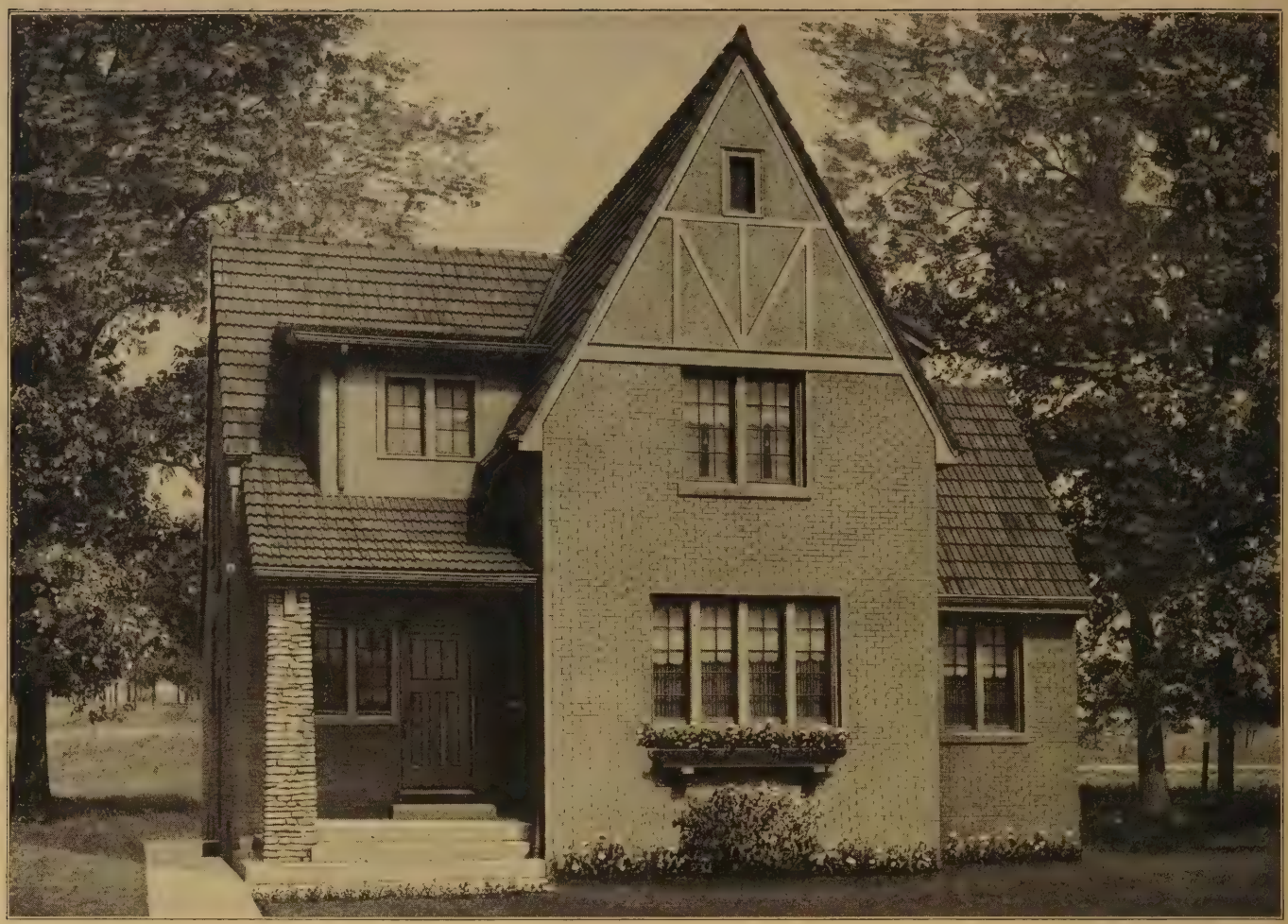
Extreme Width	35' 6"
Extreme Depth	39' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

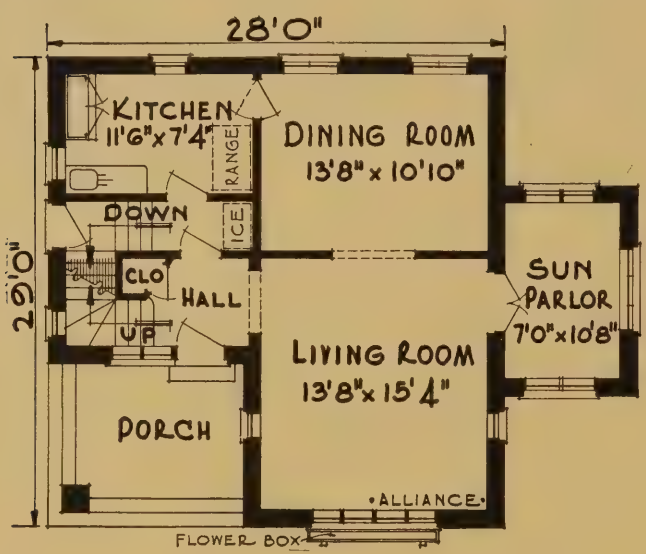
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms, Bath and Sun Parlor

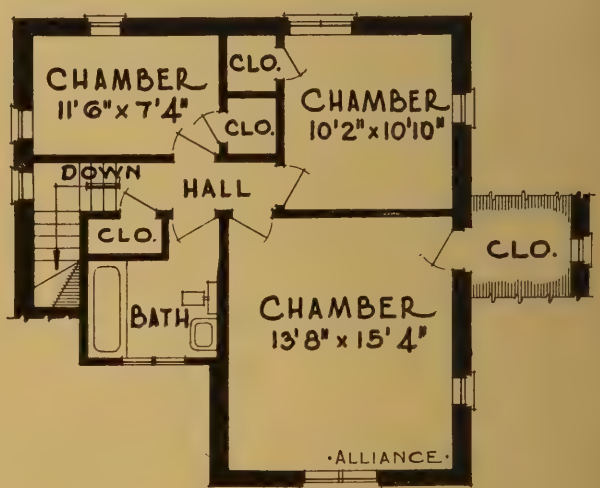
"The ALLIANCE"

28 Ft. Wide x 29 Ft. Deep



THE Alliance is truly a home of which its owner may be proud. It seems inbued with the very essence of hospitality and good cheer.

The construction is of brick, and steel casement sash are used.



SIZES:

Extreme Width	37'0"
Extreme Depth	31'6"
First Floor Ceiling	8'6"
Second Floor Ceiling	8'0"
Basement Ceiling	7'0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



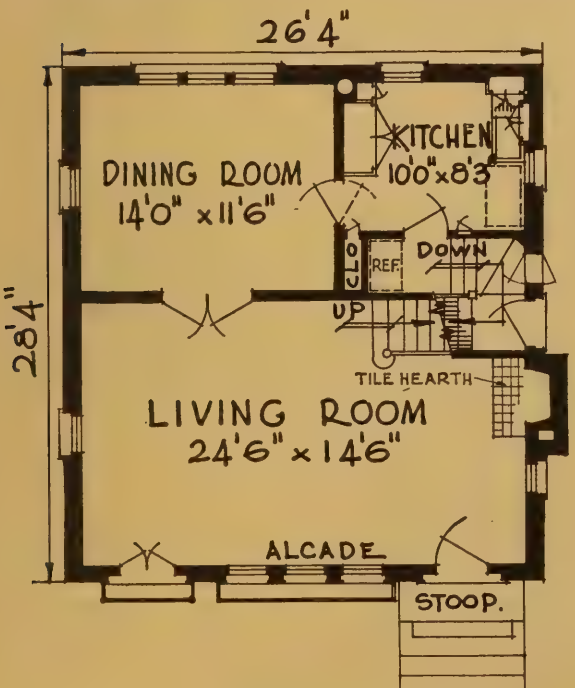
5 Rooms and Bath

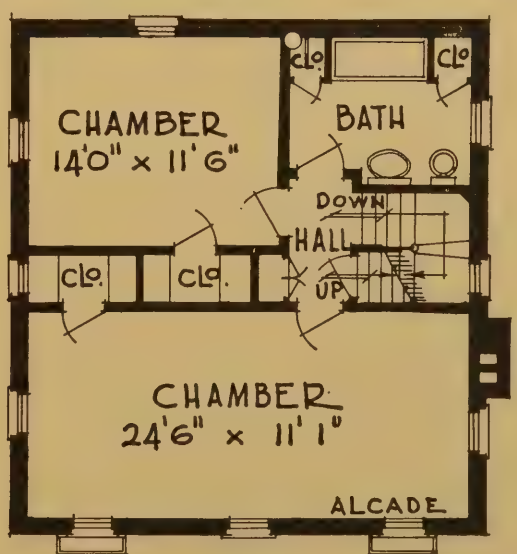
"The ALCADE"

26 Ft. 4 In. Wide x 28 Ft. 4 In. Deep

A WELL arranged home with face brick veneer for exterior. The orderly treatment of the symetrically placed windows and shutters give this design individuality and style.

The interior offers five immense rooms with all modern utility conveniences.





SIZES:

Extreme Width	28' 0"
Extreme Depth	34' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

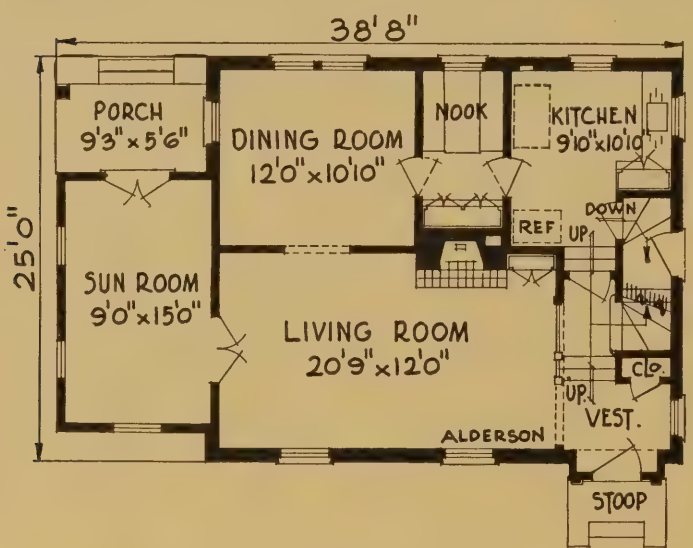


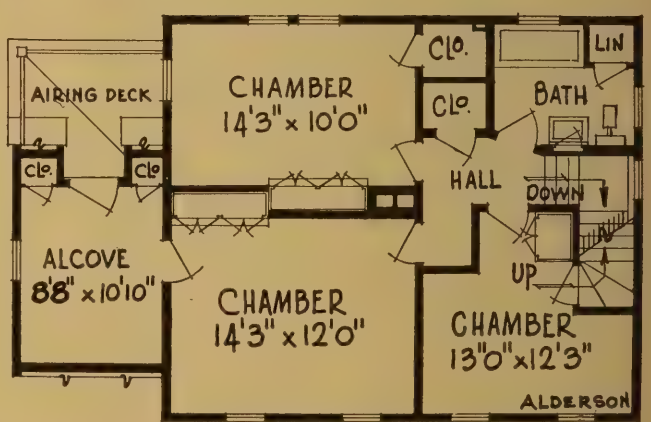
6 Rooms, Bath, Sun Room
Alcove and Nook

"The ALDERSON"

38 Ft. 8 In. Wide x 25 Ft. Deep

IT is next to impossible to secure more appropriate contrast than Brick Veneer and siding. The color and texture of both vary, but there is no discord. Shutters provide the finishing touch to the exterior. The rooms are all large, restful and pleasant.





SIZES:

Extreme Width	40' 3"
Extreme Depth	32' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

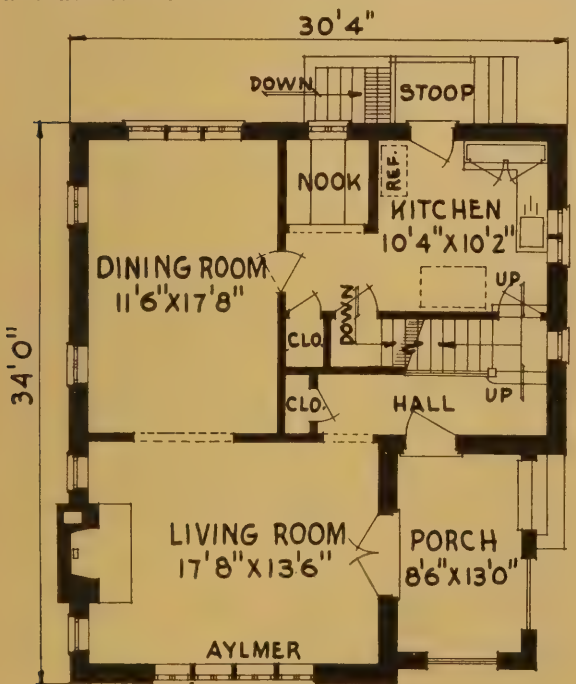


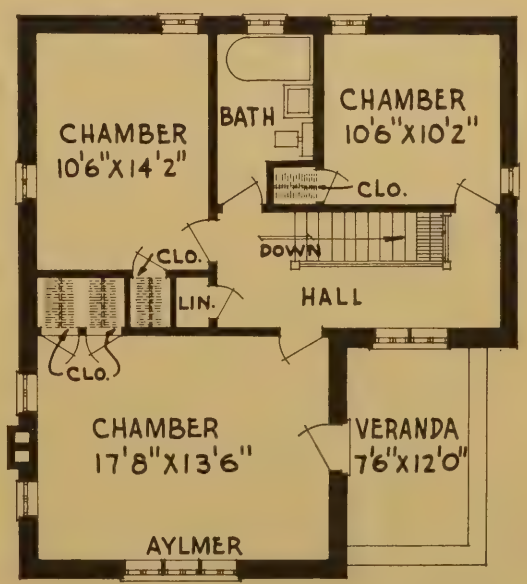
6 Rooms, Bath and Dining Nook

"The AYLMER"

30 Ft. 4 In. Wide x 34 Ft. Deep

SKINTLED face brick gives an air of rusticity that is charming. Steel casement sash is employed throughout, a practical and attractive feature. There is a coziness and warmth inside that is hard to beat. The general room arrangement makes it possible and affords many attractive ways of decoration.





SIZES:

Extreme Width	33' 4"
Extreme Depth	39' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

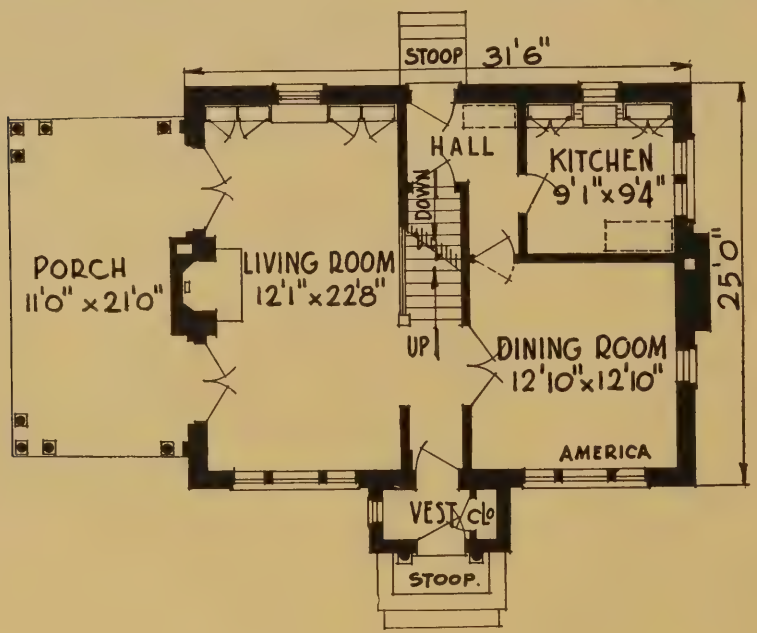
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



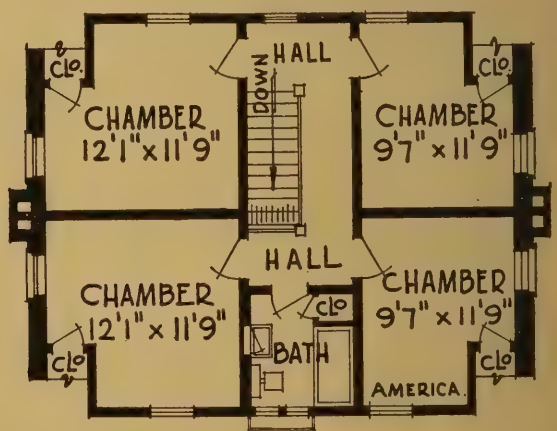
7 Rooms and Bath

"The AMERICA"

31 Ft. 6 in. Wide x 25 Ft. Deep



BUILT of brick, stucco and tile, the "America" holds ever varying appeal. Picture for a moment the living room with its big booming fireplace flanked by French doors. There are four chambers which not only affords plenty of room for the family, but provides for guests.



SIZES:

Extreme Width	46' 0"
Extreme Depth	38' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.

Chicago.—Rochester.—Detroit.—New York.

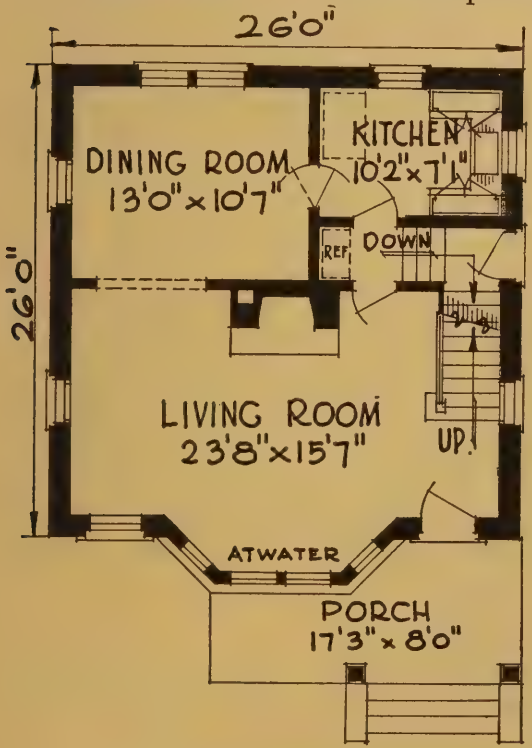


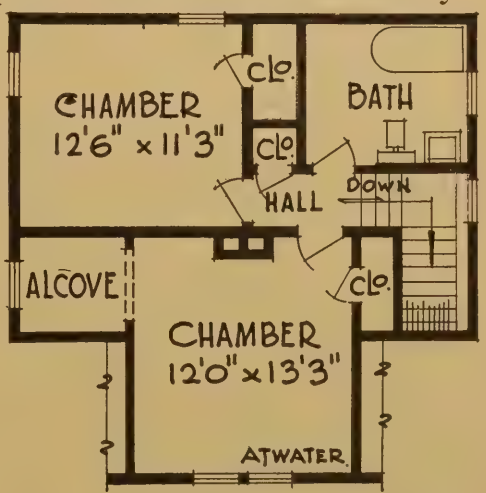
5 Rooms and Bath

"The ATWATER"

26 Ft. Wide x 26 Ft. Deep

THE rich appearance of the "Atwater" belies its moderate cost. The living room with its broad expanse and cheerful fire-place at once catches the eye. The chambers are roomy, the front one being specially enlarged by the dressing alcove.





SIZES:

Extreme Width	29' 0"
Extreme Depth	38' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

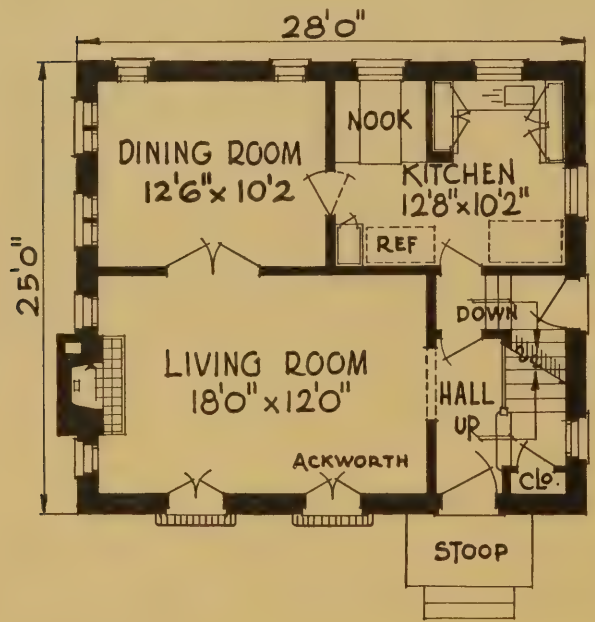


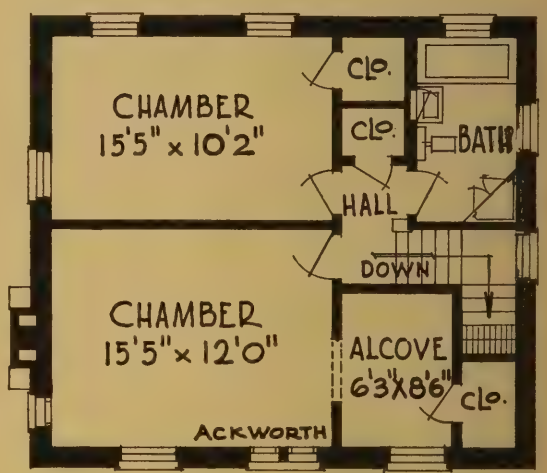
5 Rooms, Bath and Alcove

"The ACKWORTH"

28 Ft. Wide x 25 Ft. Deep

HE "Ackworth" is simple to build because it is simple in design. Yet look at the beauty and monumentality achieved through this very simplicity. The kitchen is a model room with its built in conveniences and dining nook. The alcove off the largest upstairs chamber offers many possibilities for cozy furnishing.





SIZES:

Extreme Width	33' 0"
Extreme Depth	34' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

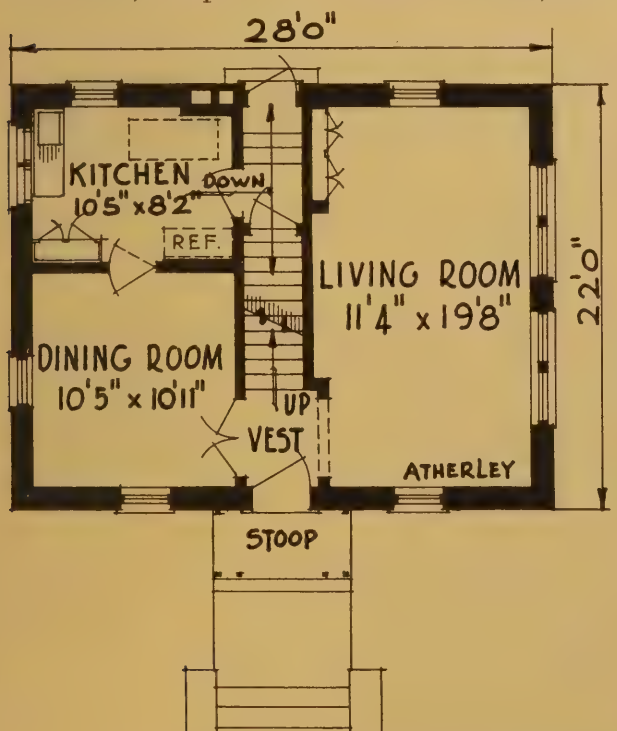


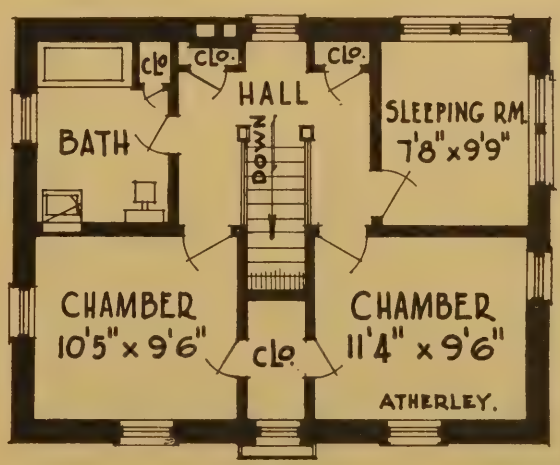
5 Rooms, Bath and Sleeping Room

"The ATHERLEY"

28 Ft. Wide x 22 Ft. Deep

SIMPLICITY in brick, yet a definite beauty arises from its very simplicity. Two large chambers, and a smaller sleeping room, afford ample sleeping comfort. The walls being 13" thick, keep out the summer heat, and winter cold.





SIZES:

Extreme Width	30' 0"
Extreme Depth	34' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

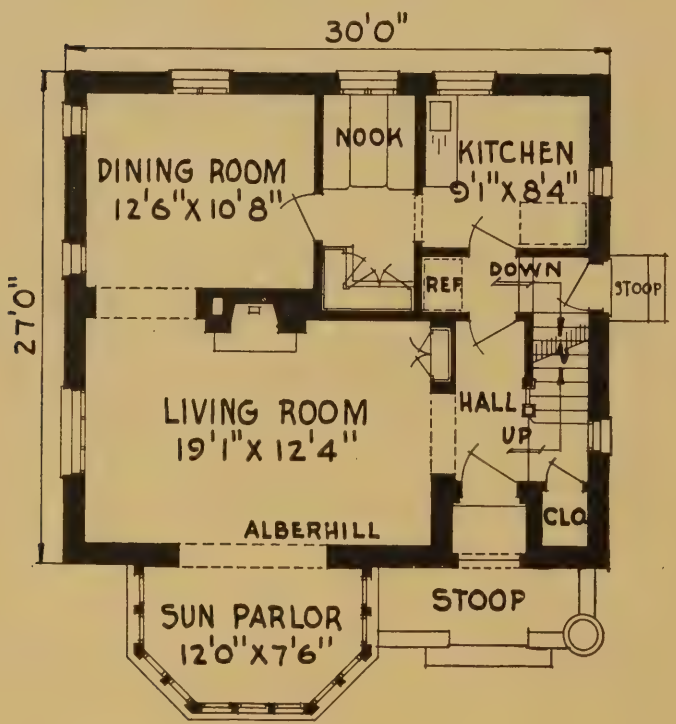


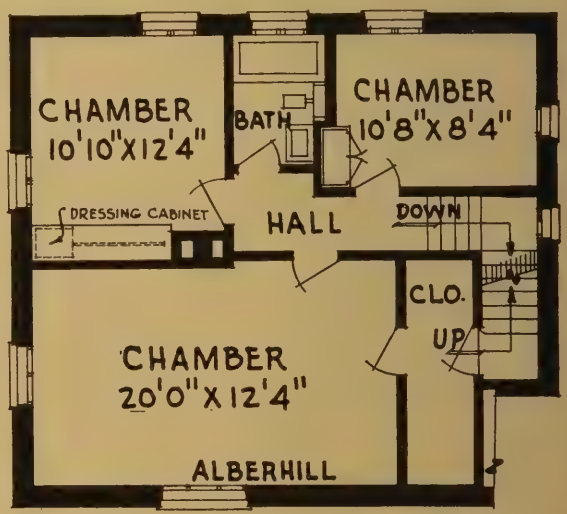
6 Rooms, Bath and Dining Nook

"The ALBERHILL"

30 Ft. Wide x 27 Ft. Deep

SOLIDLY and beautifully built by using face brick and steel casement sash. The plaster arch between the living and dining rooms enchances both rooms. A comfortable home and a sound investment.





SIZES:

Extreme Width	33' 6"
Extreme Depth	38' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications and Two (2) Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

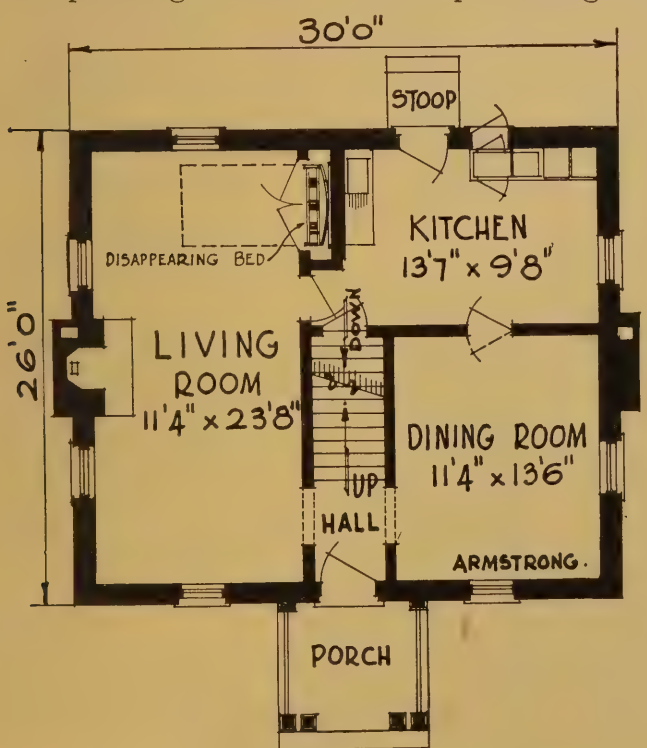


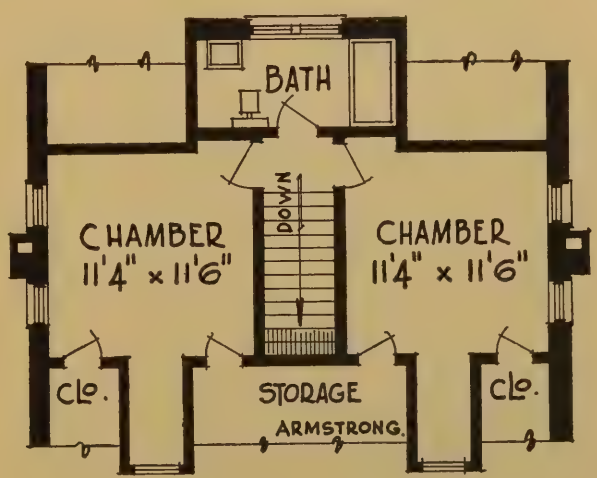
5 Rooms and Bath

"The ARMSTRONG"

30 Ft. Wide x 26 Ft. Deep

THE "Armstrong" expresses strength and beauty in every line. Solid 13" brick walls with face brick for exterior. The convenience of a disappearing bed in the living room is a pleasing feature. The ample storage room upstairs should be particularly noted.





SIZES:

Extreme Width	32' 0"
Extreme Depth	38' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications and Two (2) Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

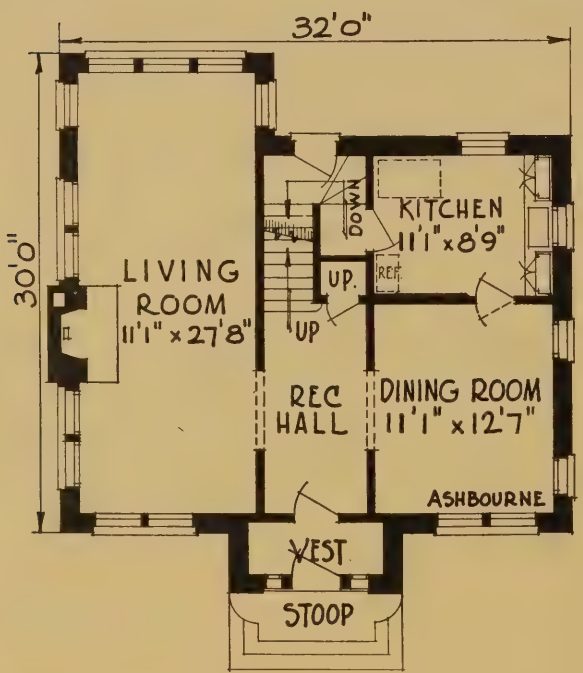
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



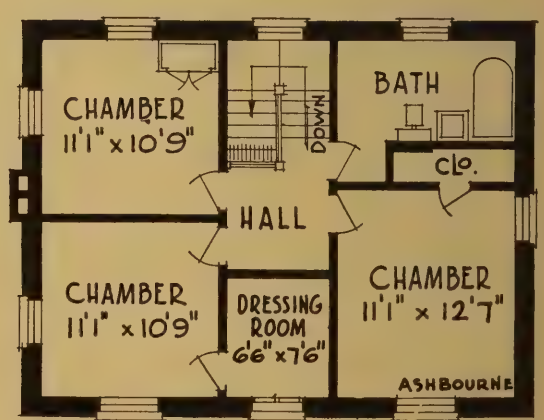
6 Rooms and Bath

"The ASHBOURNE"

32 Ft. Wide x 24 Ft. 4 In. Deep



ENDURING pleasure is the gift of the "Ashbourne." Simple lines and sturdy construction insure this. Then there is a living room lined with windows. Upstairs is a small dressing room to delight the wife.



SIZES:

Extreme Width	34' 0"
Extreme Depth	39' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

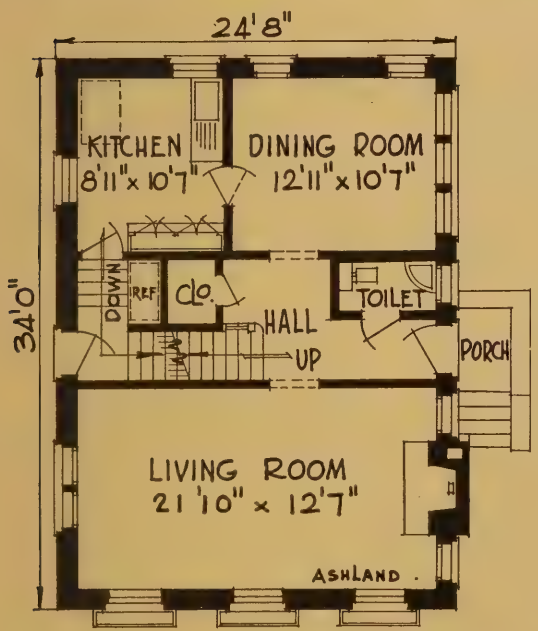
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



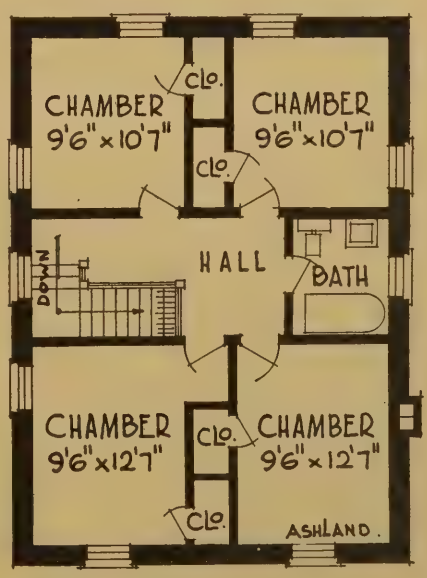
7 Rooms, Bath and Toilet

"The ASHLAND"

24 Ft. 8 In. Wide x 34 Ft. Deep



A DECIDED stateliness is obtained from the square shape and projecting roof of the "Ashland." The 13-inch brick wall with face brick outside give added comfort as well as durability. The square shape permits four ample chambers upstairs. The downstairs toilet and refrigerator compartment should be pointed out.



SIZES:

Extreme Width	32' 0"
Extreme Depth	41' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications and Two (2) Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

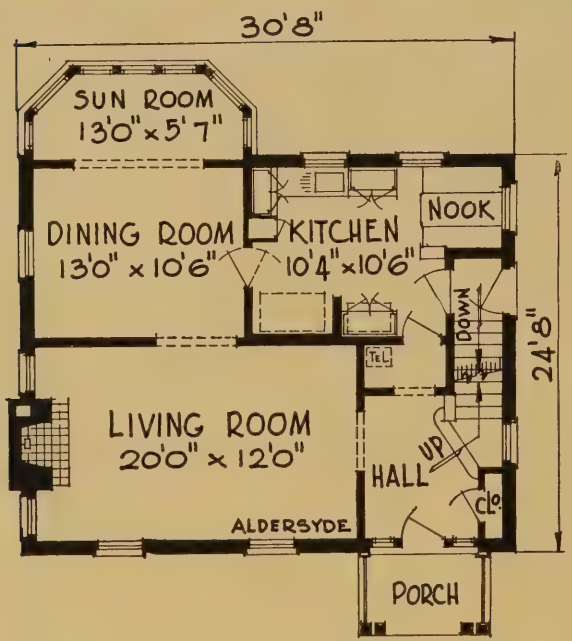
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



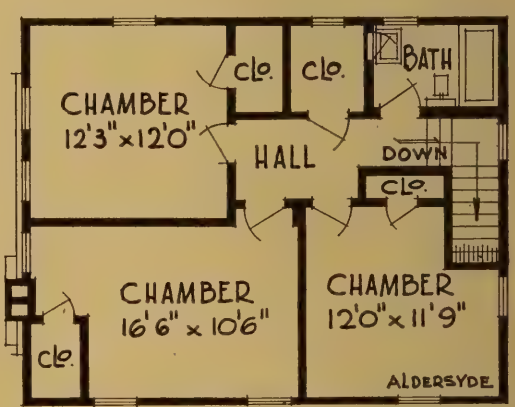
6 Rooms, Bath and Sun Room

"The ALDERSYDE"

30 Ft. 8 In. Wide x 24 Ft. 8 In. Deep



FACE Brick Veneer and light siding are used here to offset one another. The result is a pleasing blend of color and texture. An unusually sunny sun room, and a cozy breakfast nook are found downstairs.



SIZES:

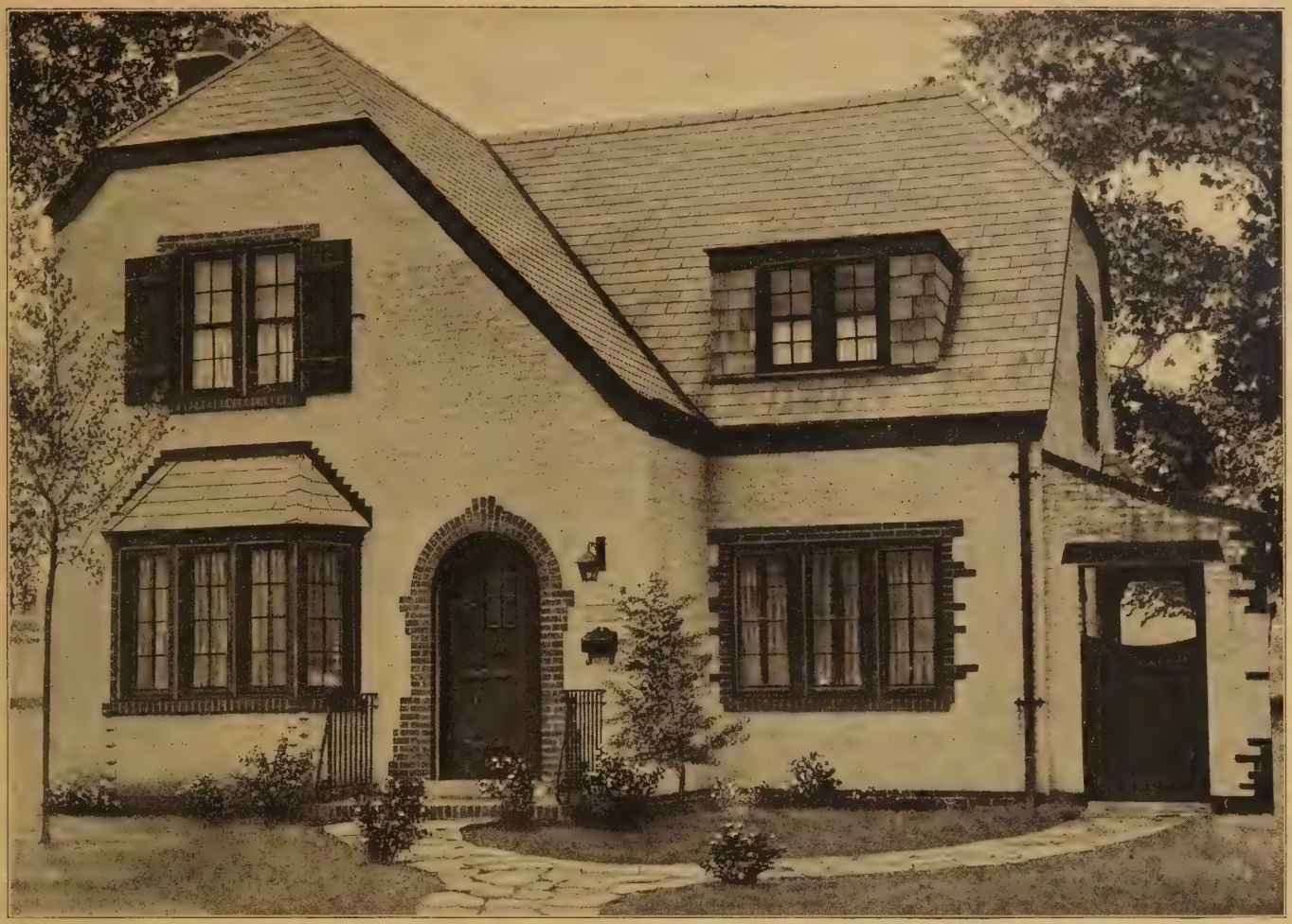
Extreme Width	32′ 0″
Extreme Depth	37′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

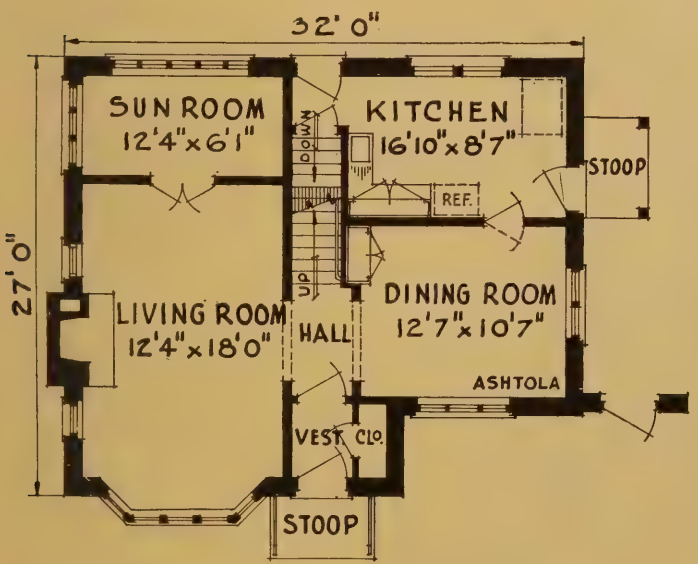
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



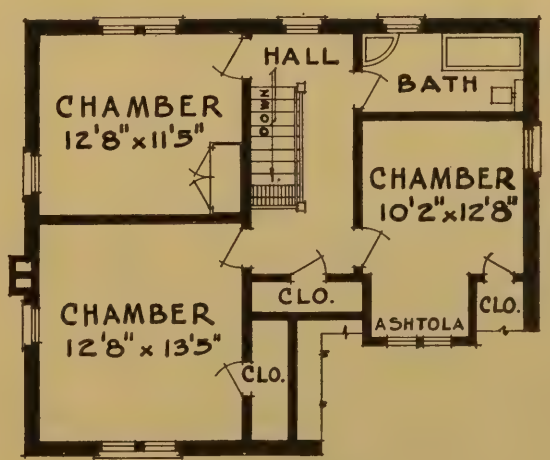
6 Rooms, Bath and Sun Room

"The ASHTOLA"

32 Ft. Wide x 27 Ft. Deep



THE whitened face brick recalls the simple beauty of the early American Colonial Homes. The colored brick trimming as well as the attached gate give the individual touch. The spacious living room with its adjoining sun room offer luxurious comfort. Large chambers upstairs make the "Ashtola" most livable. Steel sash thruout give the desired combination of modern comfort, and old beauty.



SIZES:

Extreme Width	40' 0"
Extreme Depth	32' 0
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

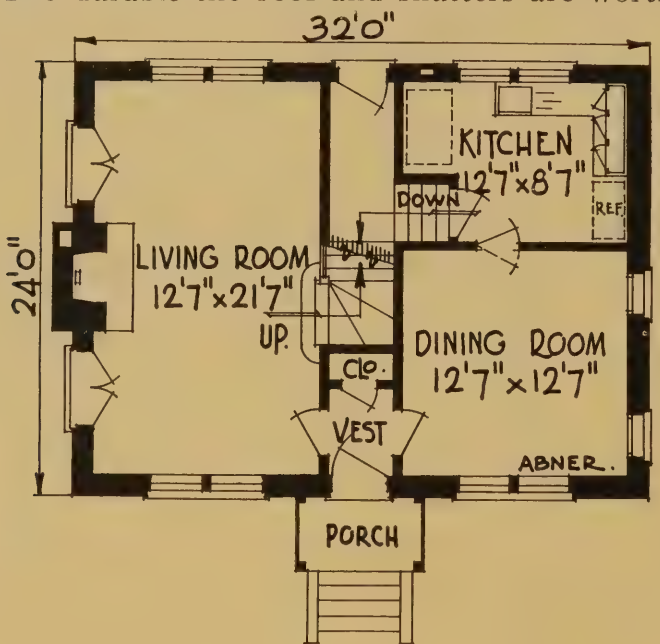


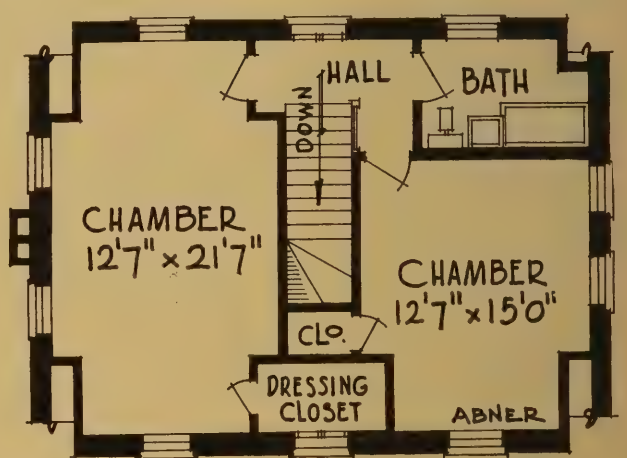
5 Rooms, Bath and Dressing Closet

"The ABNER"

32 Ft. Wide x 24 Ft. Deep

IT is a wonderful feeling to find something you have been seeking for a long time. To many the "Abner" is this find. A 13" face brick wall all around gives a sturdiness and beauty seldom found. Glance for a moment at the floor plan and picture the spaciousness of the rooms. The durable tile roof and shutters are worthy features.





SIZES:

Extreme Width	34' 6"
Extreme Depth	29' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

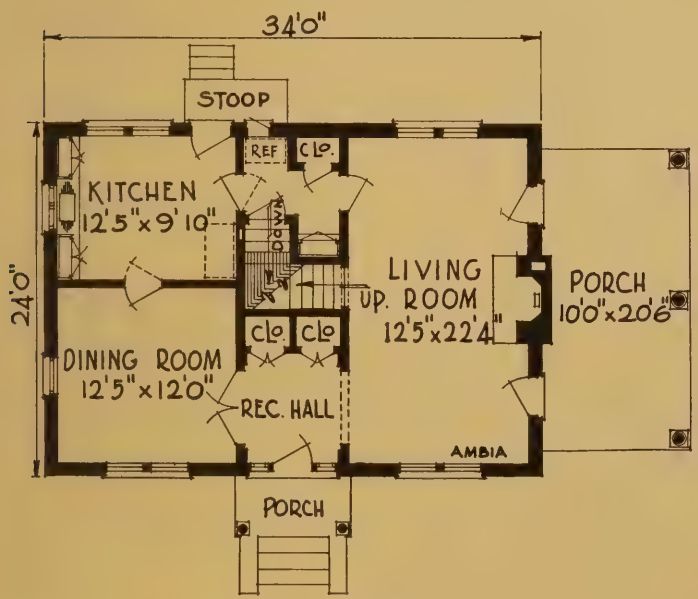
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



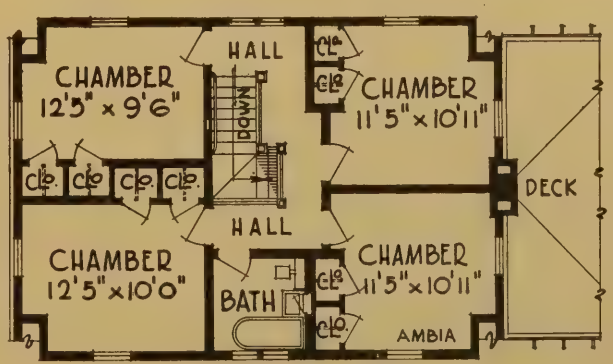
7 Rooms and Bath

"The AMBIA"

34 Ft. Wide x 24 Ft. Deep



THE exterior suggests the roominess found inside. Face brick veneered walls with shingles above and all trimmed in white makes the "Ambia" colorful as well as stately. Then there is the matchless upstairs arrangement with space saving closet fixtures.



SIZES:

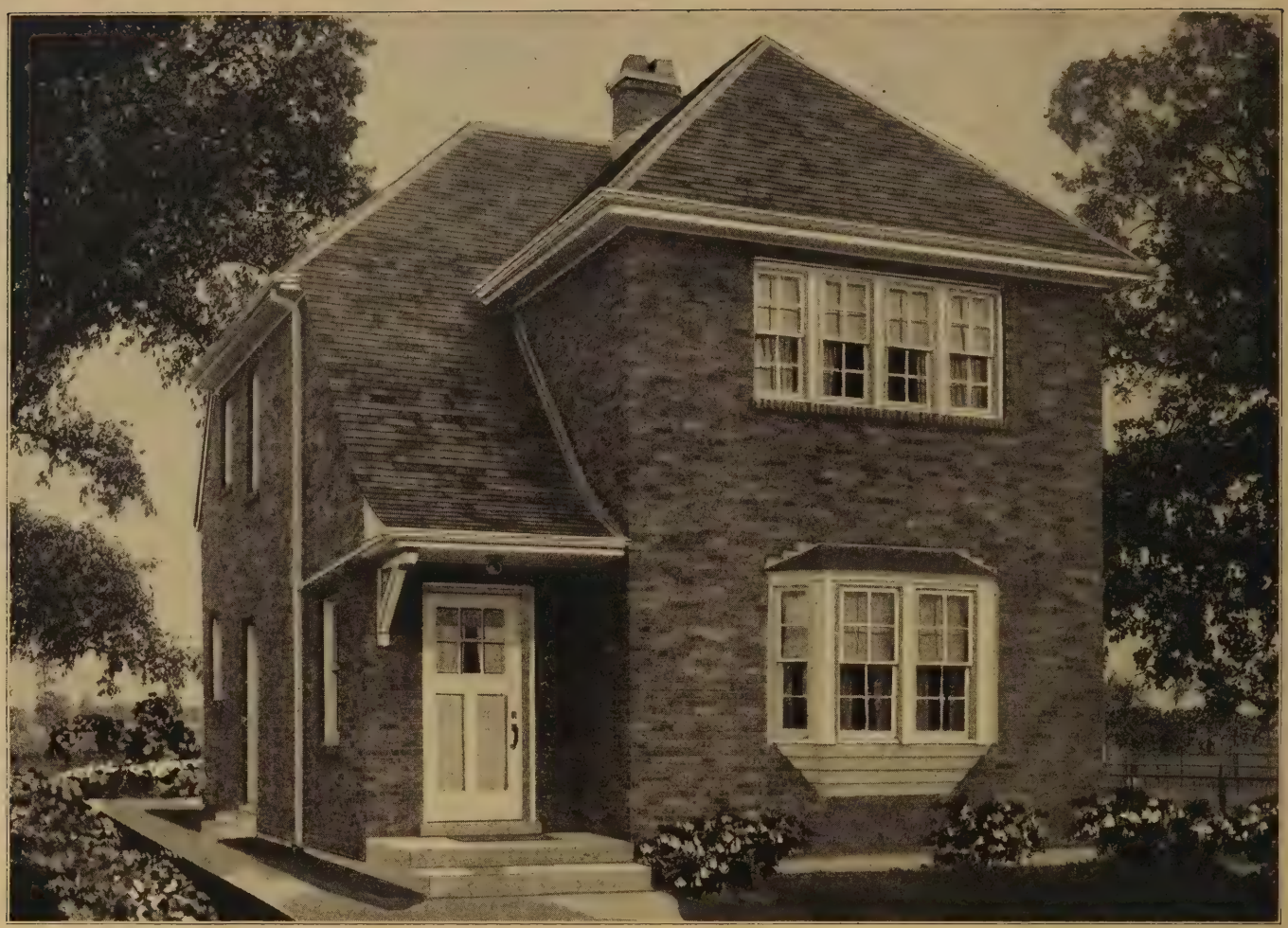
Extreme Width	46' 0"
Extreme Depth	37' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

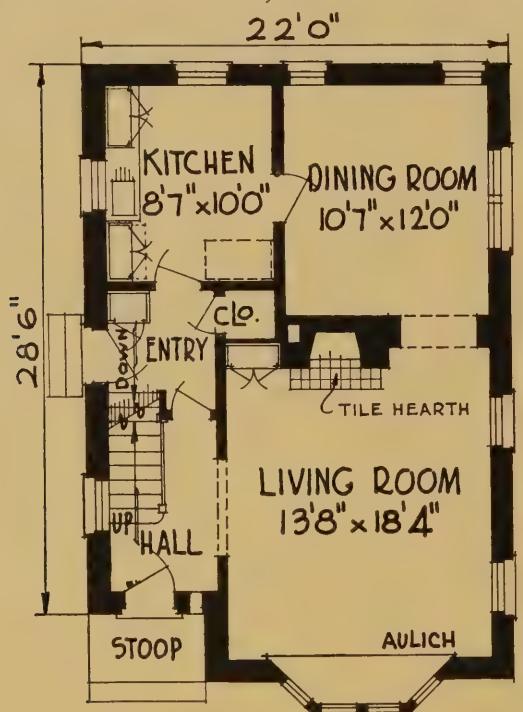


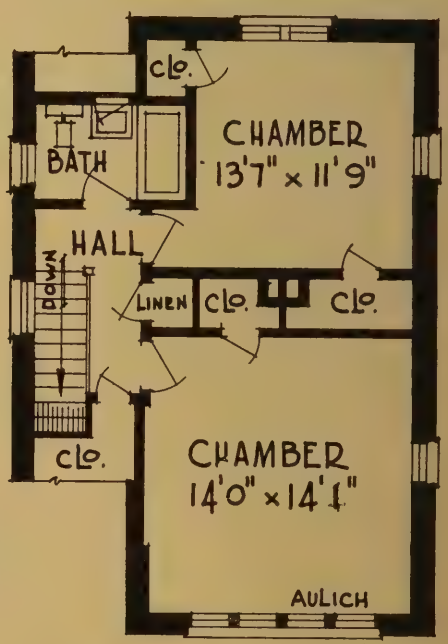
5 Rooms and Bath

"The AULICH"

22 Ft. Wide x 32 Ft. Deep

DURABLE, beautiful, practical, and economical, the "Aulich" has all to be desired in a medium priced home. The living room with its tile hearth and wide bay, contains infinite pleasure. There are many thoughtful features; such as a linen closet, and a built in mail box.





SIZES:

Extreme Width	26' 0"
Extreme Depth	36' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

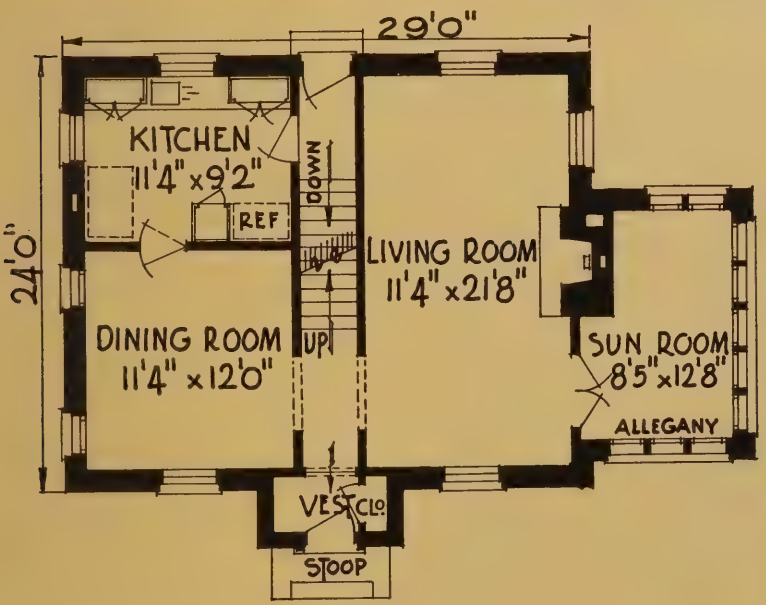
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



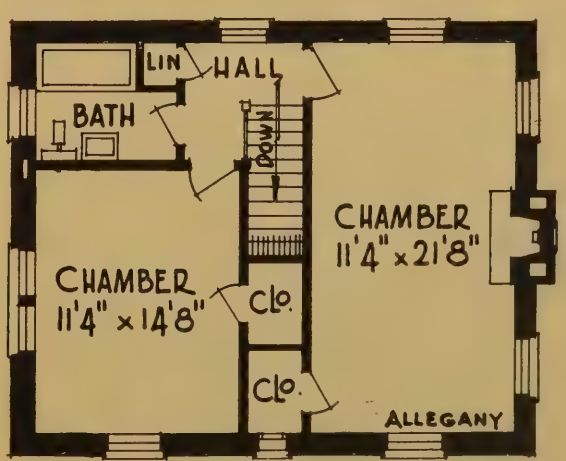
5 Rooms, Bath and Sun Parlor

"The ALLEGANY"

29 Ft. Wide x 24 Ft. Deep



THERE is nothing new or unusual in the appearance of the "Allegany." It is a typical American home and as such it offers quiet beauty and a commodious interior. By using face brick all around a continuous lustre and regular harmony is effected.



SIZES:

Extreme Width	40' 6"
Extreme Depth	31' 9"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

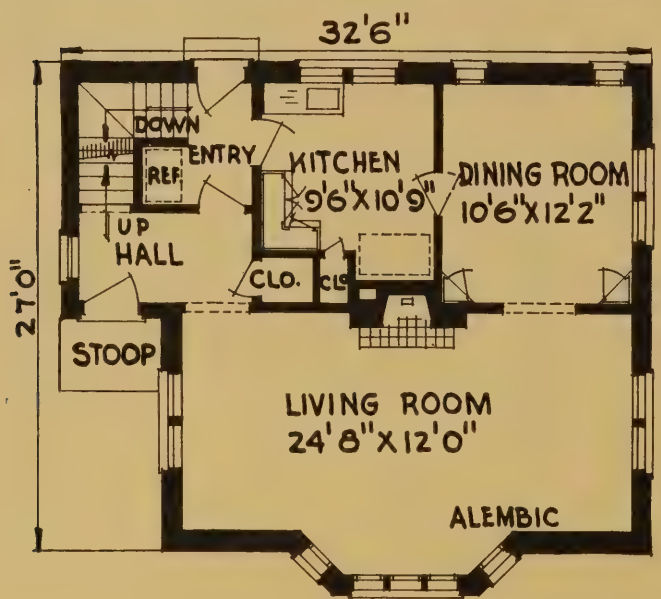


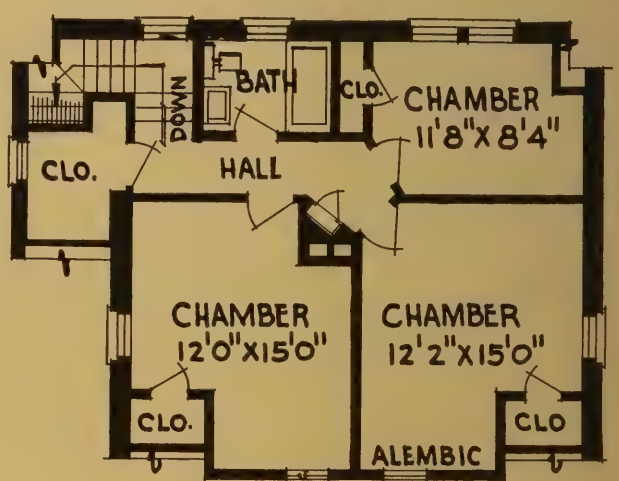
6 Rooms and Bath

"The ALEMBIC"

32 Ft. 6 In. Wide x 27 Ft. Deep

THE success of an investment depends upon quality and durability in the main. The use of face brick and asphalt roof provide both of these qualities. The "Alembic" has style and personality also. The rooms, and particularly the living room, are large and comfortable.





SIZES:

Extreme Width	33' 6"
Extreme Depth	31' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

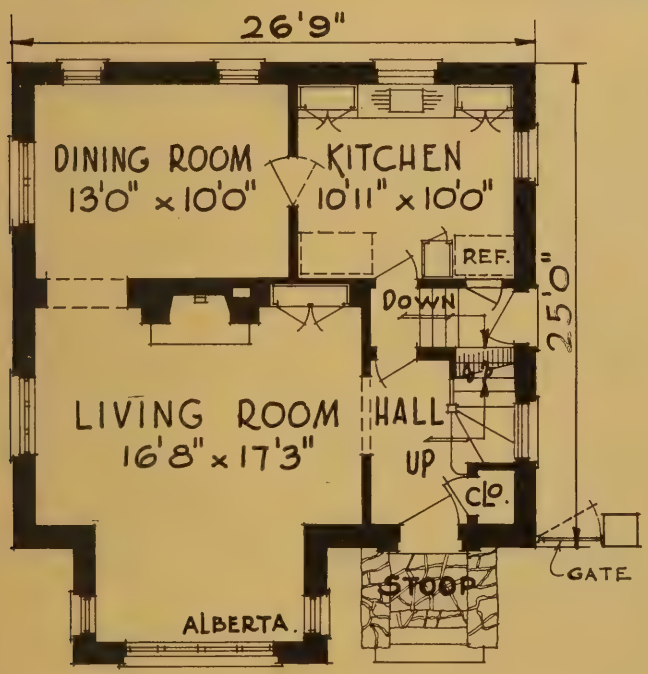
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



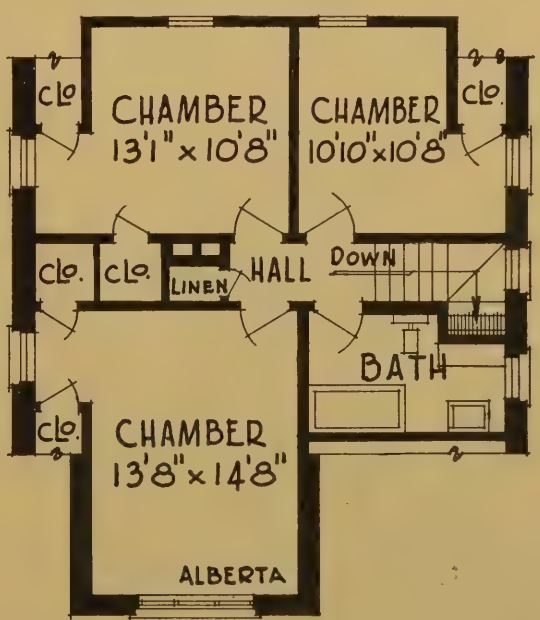
6 Rooms and Bath

"The ALBERTA"

26 Ft. 9 In. Wide x 31 Ft. Deep



OF singular beauty, showing the pleasing effect of face brick laid in rustic manner and relieved by stone. All the casement sash are practical, easy working steel sash.



SIZES:

Extreme Width	32' 9"
Extreme Depth	33' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

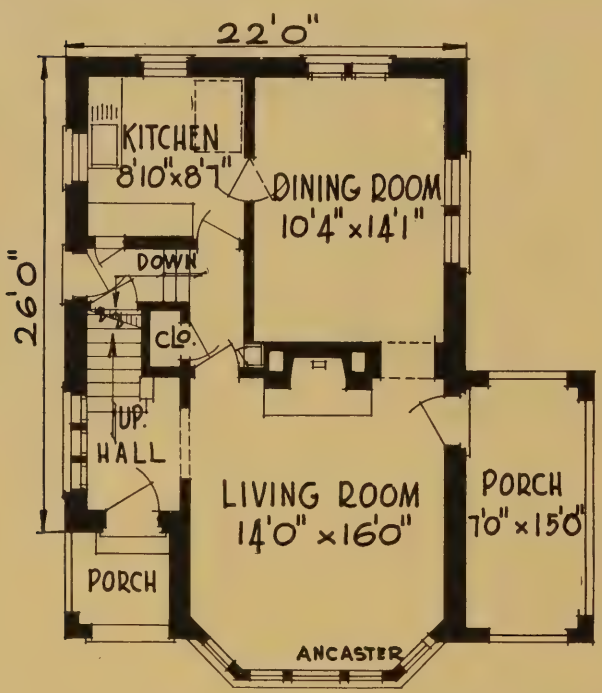


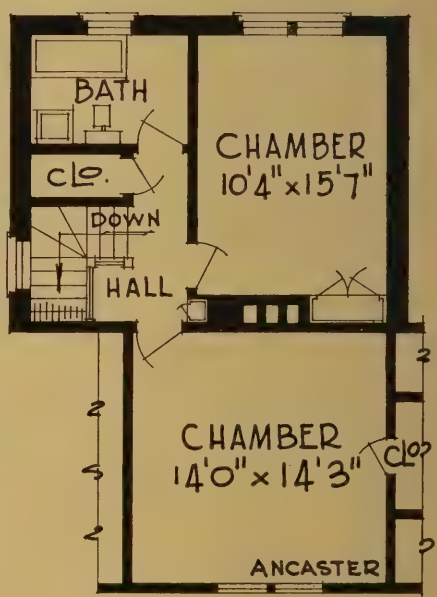
5 Rooms and Bath

"The ANCASTER"

22 Ft. Wide x 32 Ft. Deep

THE front is interesting and unusual. Combining face brick with rustic shingles makes a very attractive contrast. The fire-place faces the big bay in the living room, a pleasing effect. Large rooms and many conveniences make the "Ancaster" the home of domestic happiness.





SIZES:

Extreme Width	34' 0"
Extreme Depth	36' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

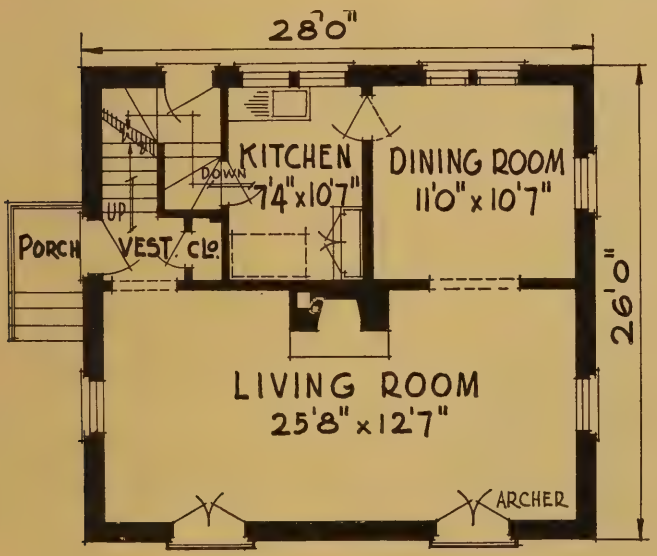
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



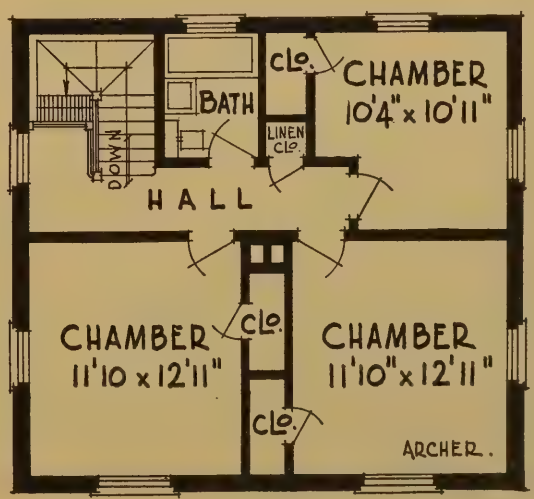
6 Rooms and Bath

"The ARCHER"

28 Ft. Wide x 26 Ft. Deep



THE "Archer" is in the strict New England Colonial style. The severity of its lines is relieved by shutters, iron rails and a tile roof. 13" brick walls insure permanence. The distribution of rooms is simple and compact, yet the very simplicity of the exterior and interior, bespeaks a quiet dignity.



SIZES:

Extreme Width	33' 0"
Extreme Depth	28' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

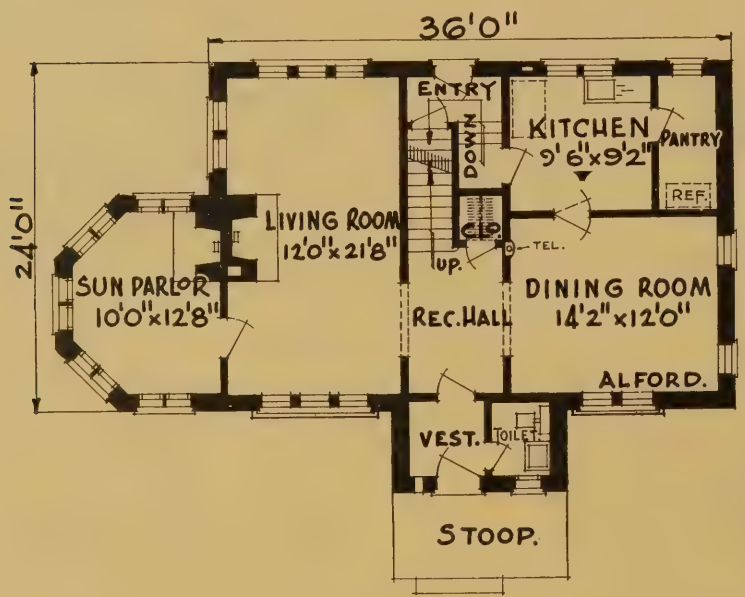


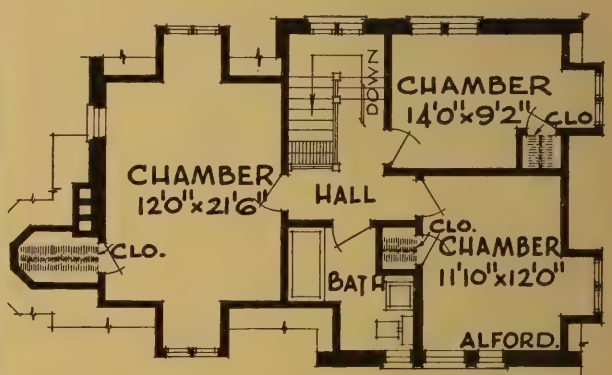
6 Rooms, Bath and Sun Parlor

"The ALFORD"

36 Ft. Wide x 24 Ft. Deep

A BEAUTY that has something of an old world flavor marks the "Alford." Many interesting roof angles give the necessary distinction to this home. The entrance is architecturally perfect. The floor plan deserves a thorough examination for there are many nooks and crannies and other attractive features that are not noticed at first glance. A home to be desired.





SIZES:

Extreme Width	49' 0"
Extreme Depth	37' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

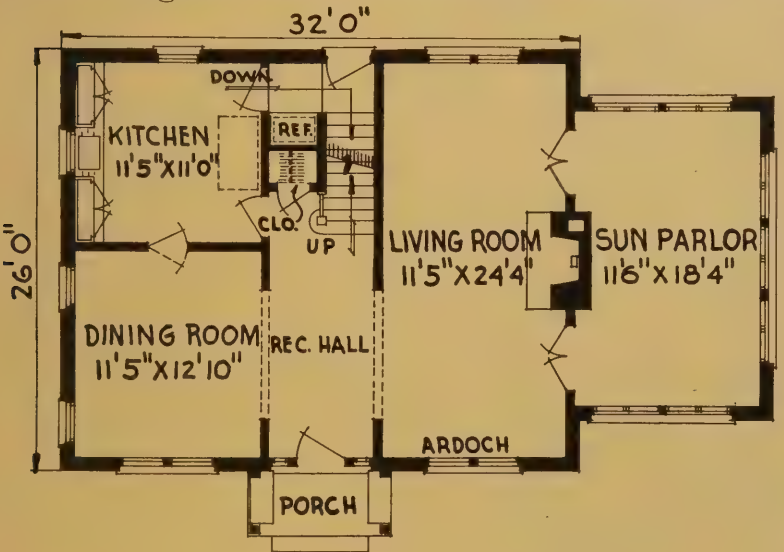


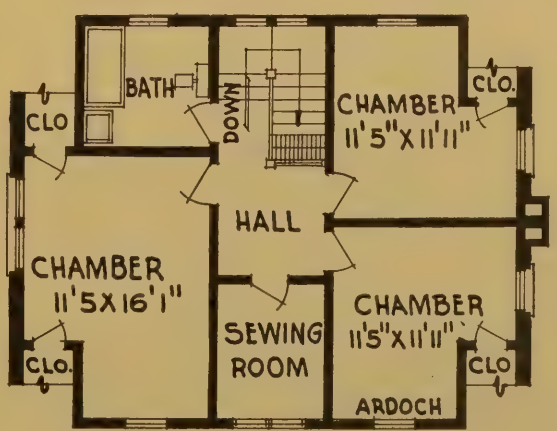
6 Rooms, Bath and Sewing Room

"The ARDOCH"

32 Ft. Wide x 26 Ft. Deep

A VARIETY of materials blend well in the "Ardoch" producing an effect that is original and harmonious. The trellis work is pleasing and fits into the general scheme. Inside we find everything to be desired in a home—space, comfort and convenience. And it all costs so little to build. The outside walls of this home are veneered with face brick.





SIZES:

Extreme Width	46' 0"
Extreme Depth	33' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

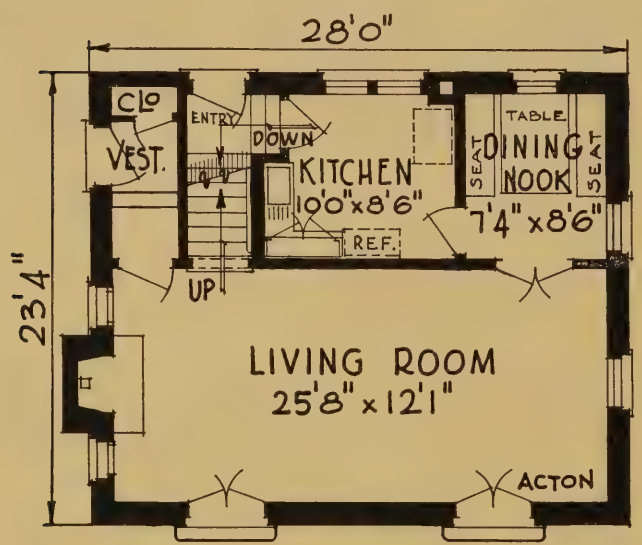
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



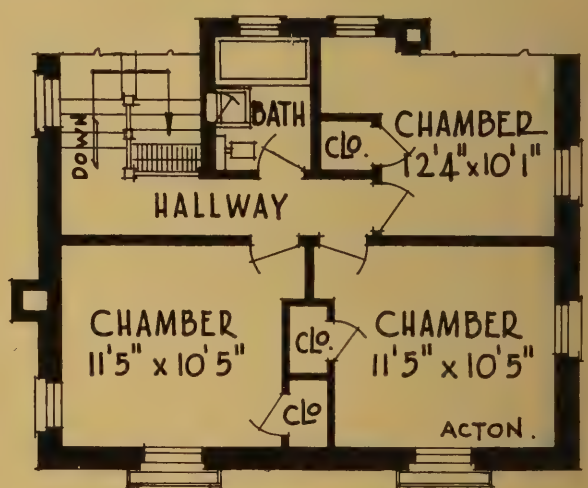
5 Rooms, Bath and Dining Nook

"The ACTON"

28 Ft. Wide x 23 Ft. 4 In. Deep



OFFERING outward beauty and inward comfort. The chimney is pleasingly unique. A perfect home for the family desiring simplicity and quality. The massive living room and cozy fireplace are worthy of notice. Face brick covers the entire walls of building.



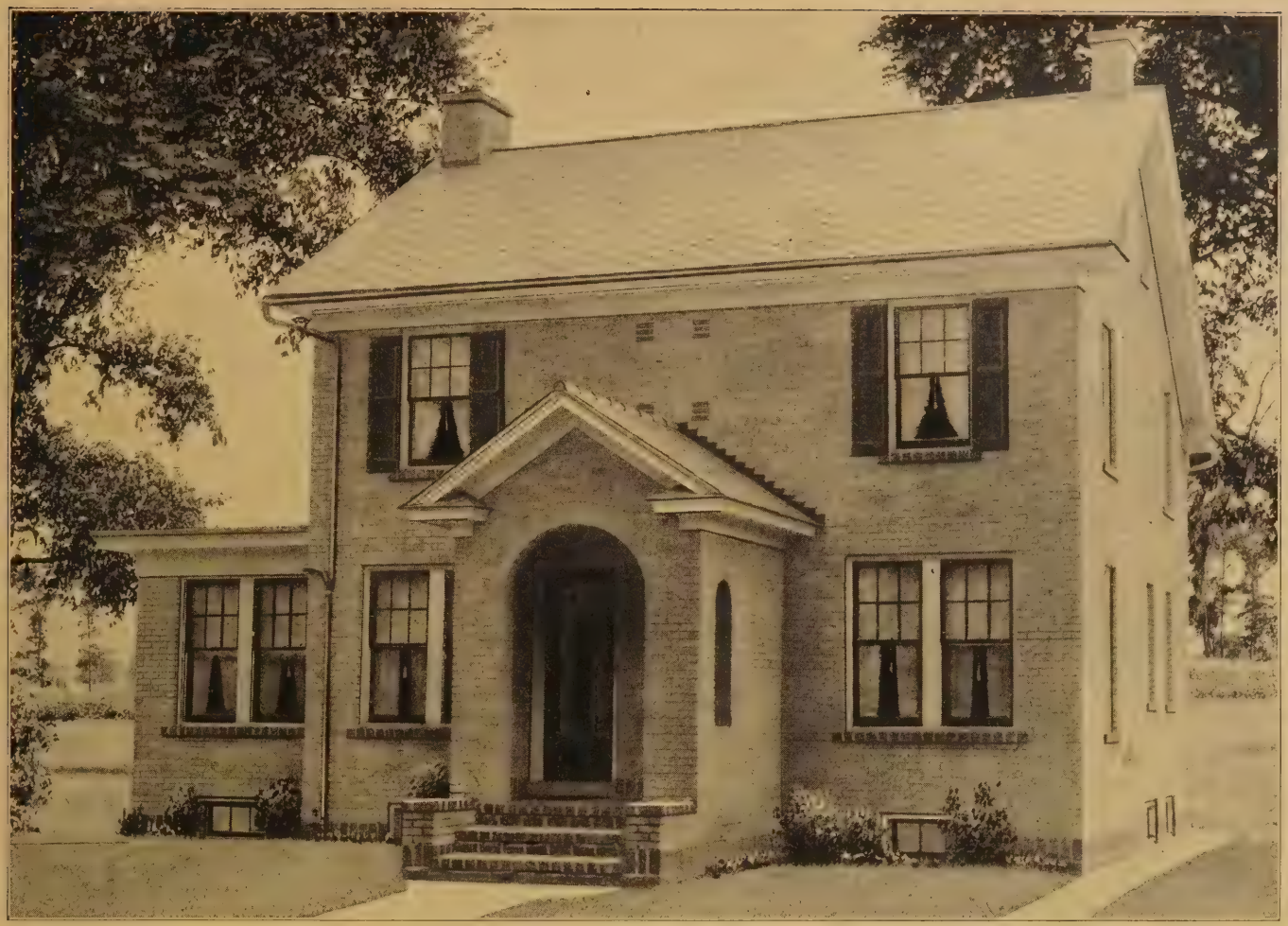
SIZES:

Extreme Width	30' 6"
Extreme Depth	25' 3"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

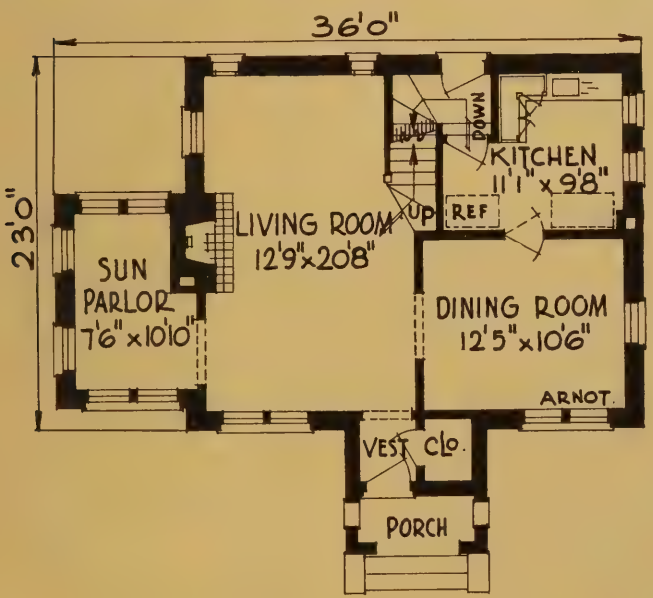


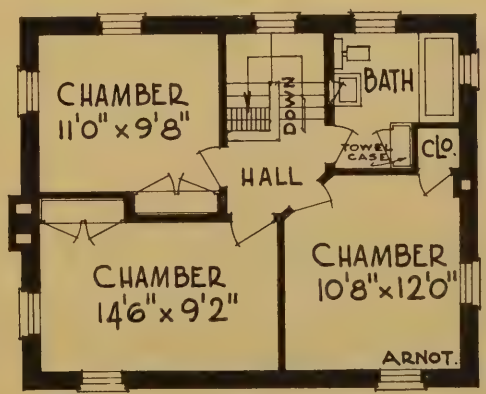
6 Rooms, Bath and Sun Parlor

"The ARNOT"

28 Ft. Wide x 23 Ft. Deep

NEAT and rich, but not gaudy. The smooth texture of the face brick is restful to look upon and forms an admirable background for the shutters and occasional brick trim. The living room with adjoining sun parlor will make staying home the rule rather than the exception. Upstairs you will find the rooms to be large and homey. The asbestos roof further adds to the durability of this home.





SIZES:

Extreme Width	39' 6"
Extreme Depth	35' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

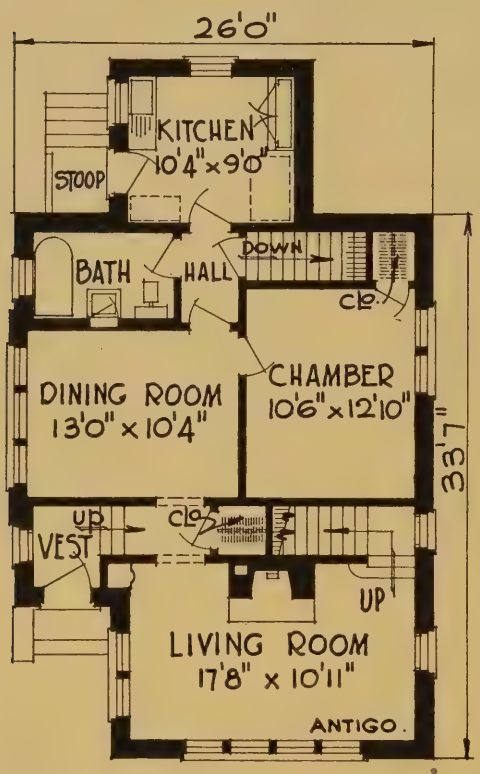
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



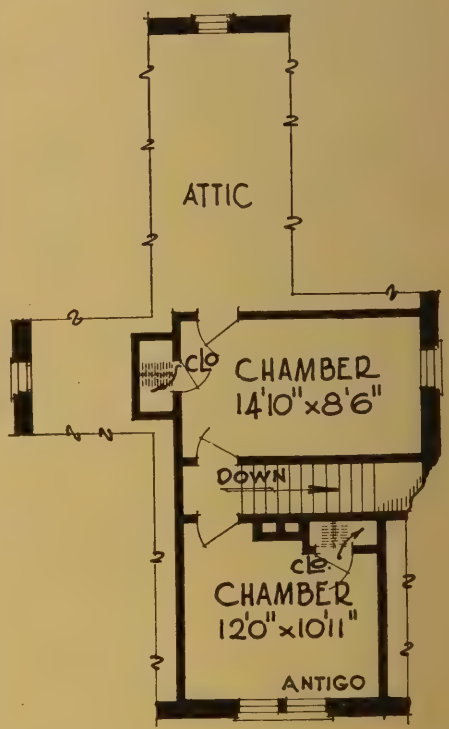
6 Rooms and Bath

"The ANTIGO"

26 Ft. Wide x 43 Ft. 1 In. Deep



A HOME designed for comfort as well as beauty. The side entrance with deck above, trellises and flower box, relieve the plain lines of this home. The 13-inch brick walls with face brick outside insure durability. Inside we find six large rooms wth many modern utilities such as space-saving closet fixtures, telephone cabinet, medicine case and kitchen cabinets, all of which will be appreciated by the housekeeper.



SIZES:

Extreme Width	29' 6"
Extreme Depth	46' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items .....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms** .....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

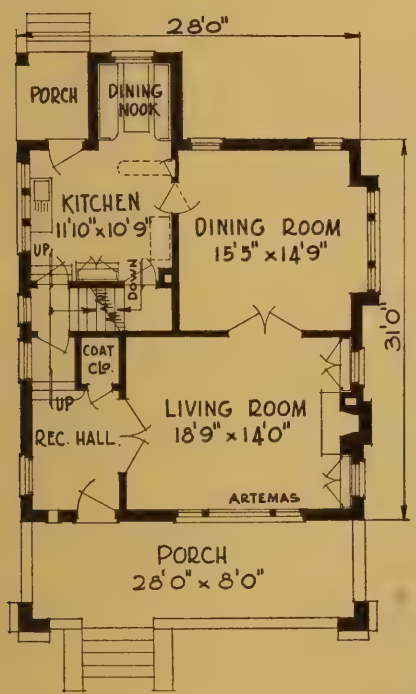
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



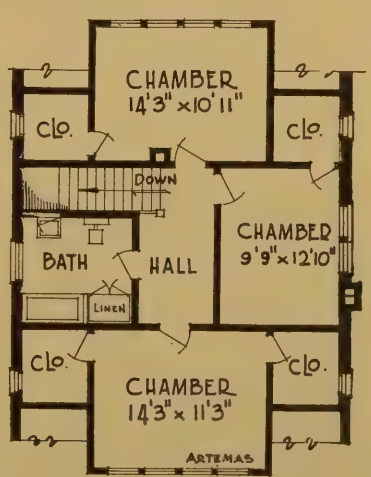
6 Rooms and Bath

"The ARTEMAS"

28 Ft. Wide x 31 Ft. Deep



BEAUTY, permanence and comfort at moderate cost, is the desired end. The "Artemus" with its face brick sides and stucco dormer has all these qualities. In addition there is a built-in mail box, dining nook and bookcases flanking the fire-place.



SIZES:

Extreme Width	33' 6"
Extreme Depth	54' 9"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

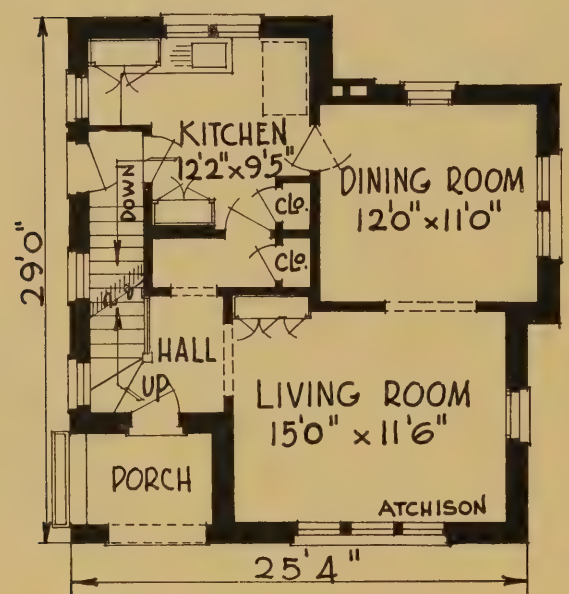
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



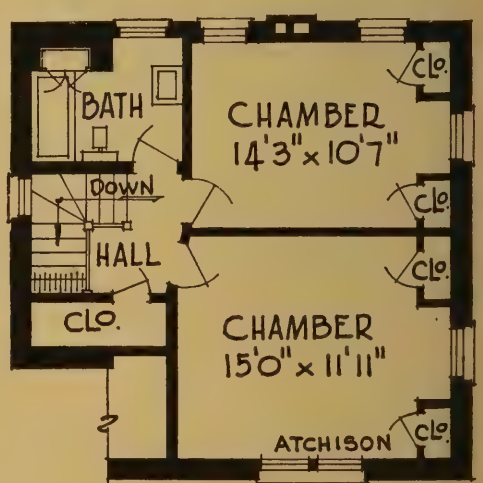
5 Rooms and Bath

"The ATCHISON"

25 Ft. 4 In. Wide x 25 Ft. 4 In. Deep



A COMFORTABLE home with face brick for exterior. 13-inch brick walls not only insure permanence but all-year comfort. The recessed entrance opens into a comfortable living room. Then there are all sorts of closets.



SIZES:

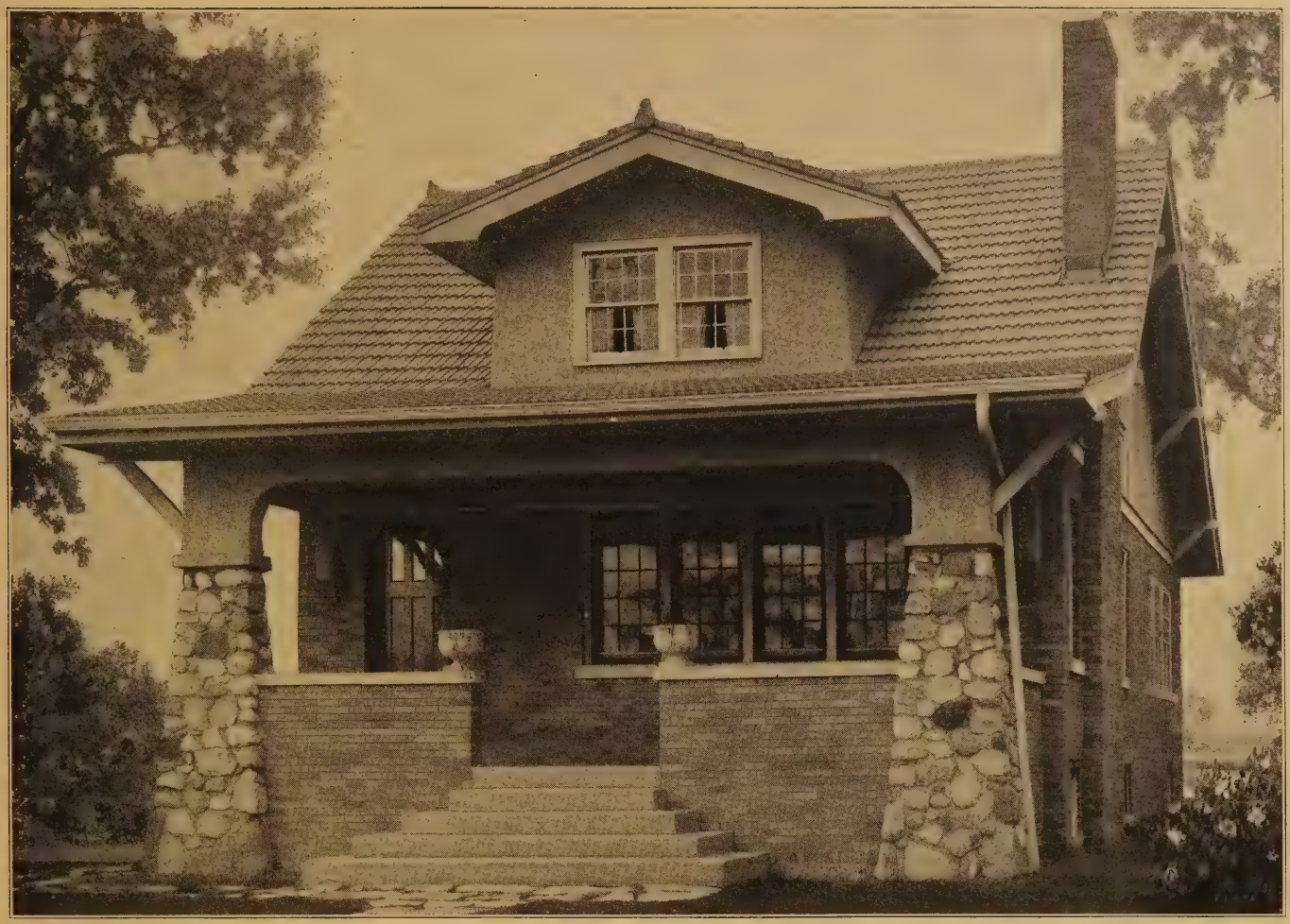
Extreme Width	29' 3"
Extreme Depth	32' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for Above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

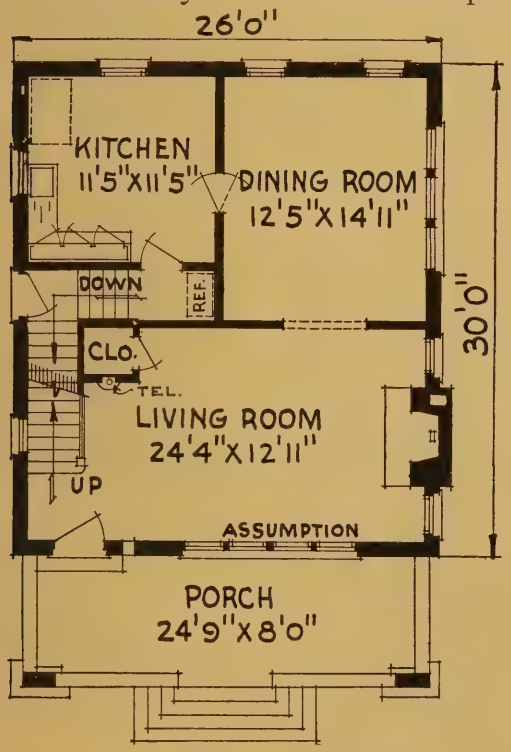


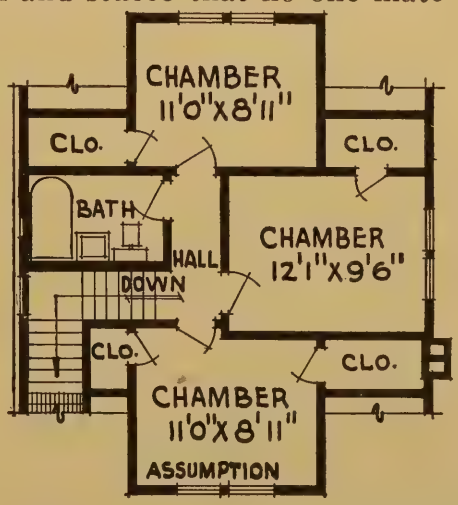
6 Rooms and Bath

"The ASSUMPTION"

26 Ft. Wide x 30 Ft. Deep

A VARIETY of materials give the above home a rich and interesting appearance. So carefully has the architect portioned his stone, face brick and stucco that no one material predominates leaving an harmonious whole. The tile roof caps it all in grand style. On the inside we find the same luxuriousness in the broad sweep of the rooms and the abundance of sunlight. A built-in telephone cabinet is featured.





OUTSIDE WALLS ARE FRAME WITH BRICK VENEER BELOW AND STUCCO FOR DORMER AND GABLES.

SIZES:

Extreme Width	30' 0"
Extreme Depth	43' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

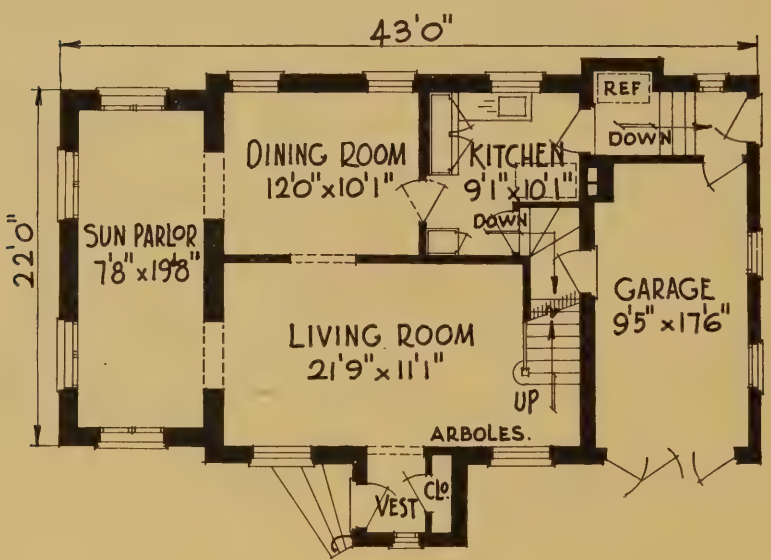
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



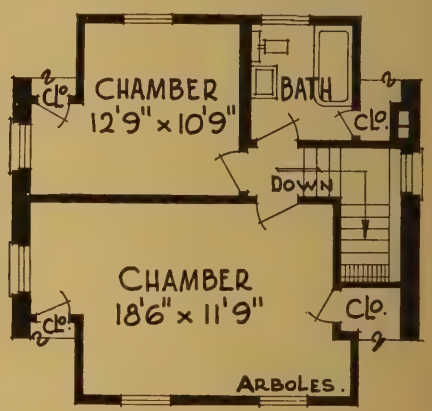
5 Rooms, Bath, Sun Parlor and Garage

"The ARBOLES"

43 Ft. Wide x 24 Ft. Deep



FATHOMING the particular beauty of the "Arboles" is hard to do. All we know is that it is original and pleasing. Face brick is used all around except on the dormer where siding and shutters give a distinctive touch. Inside it is a model of comfort and convenience from the built in garage to the expansive sun parlor.



SIZES:

Extreme Width	44' 6"
Extreme Depth	31' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

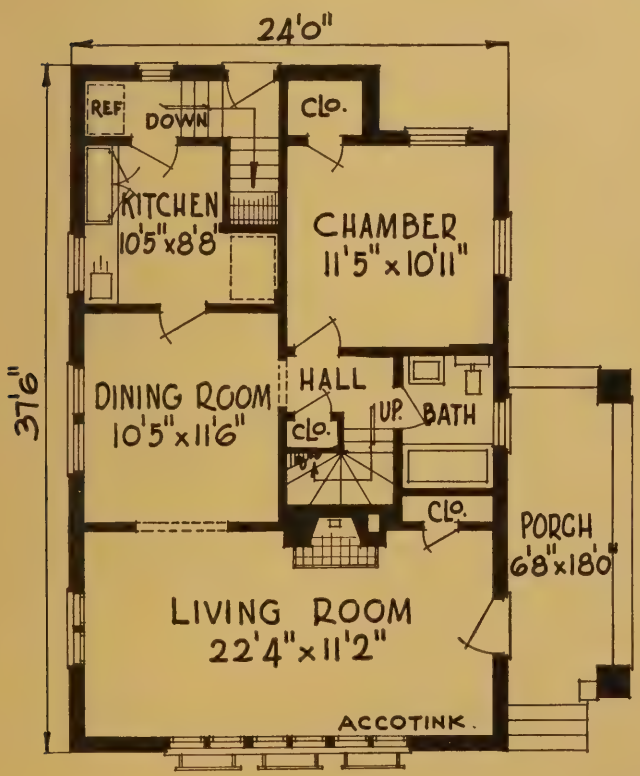
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

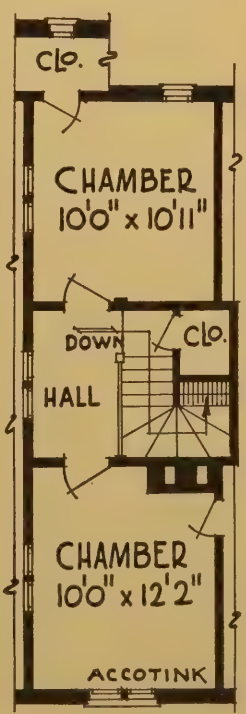
"The ACCOTINK"

24 Ft. Wide x 37 Ft. 6 In. Deep



THE beauty of the "Accotink" imprints itself on everyone who sees it. Simple in design it is neatly attractive in a way that is unusual. The floor plan is admirable as you can see for yourself.

THIS PICTURE ILLUSTRATES FACE BRICK OUTSIDE WALLS LAID IN FLEMISH BOND. PLANS SHOW CONSTRUCTION.



SIZES:

Extreme Width	35' 0"
Extreme Depth	41' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

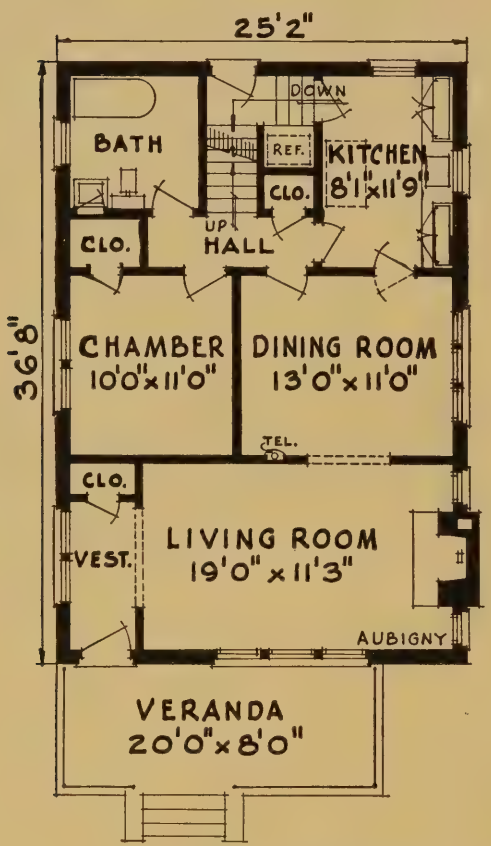
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



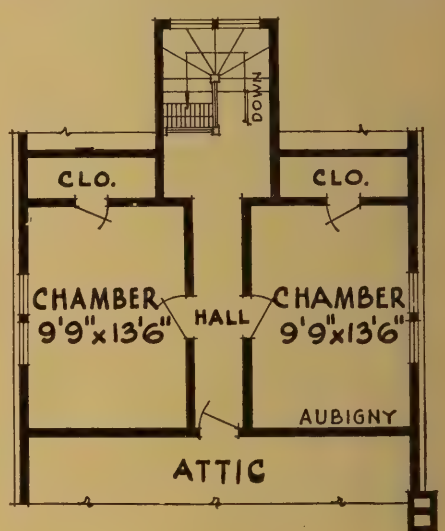
6 Rooms and Bath

"The AUBIGNY"

25 Ft. 2 In. Wide x 36 Ft. 8 In. Deep



AN artistic home such as is rarely seen in small house construction. At the same time there is nothing freakish about it. The sloping roof, the peaked entrance and the iron railing are details that are common enough but here they are blended perfectly, hence the artistry. The rooms are distributed inside so as to give the maximum comfort and economy of space.



SIZES:

Extreme Width	29' 0"
Extreme Depth	49' 6"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

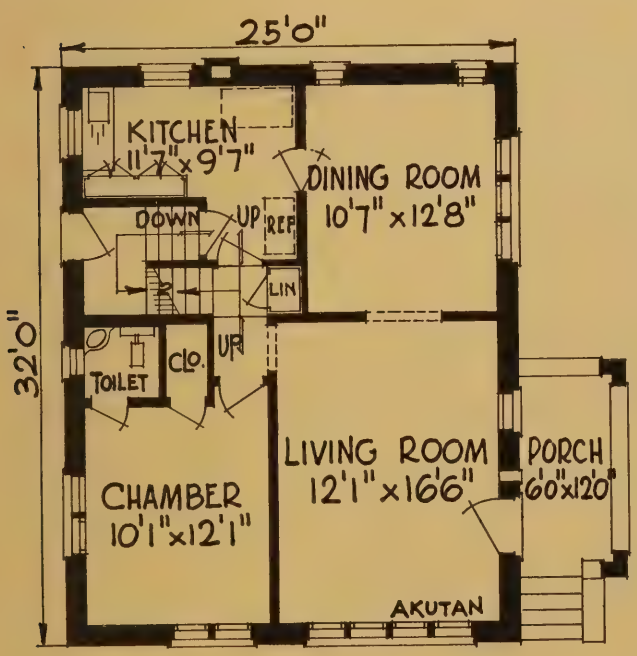
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



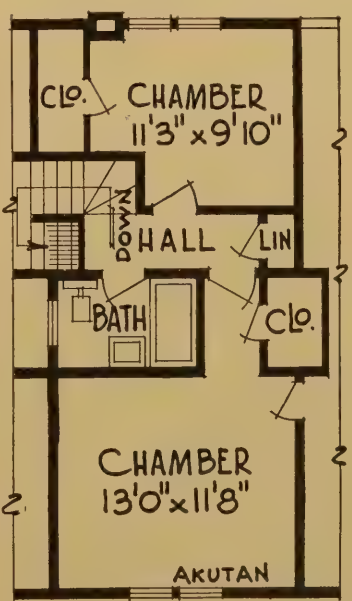
6 Rooms, Bath and Toilet

"The AKUTAN"

25 Ft. Wide x 32 Ft. Deep



HOMES of the "Akutan" type deserve their popularity. It is seldom you find such attractive qualities at a moderate price. The picture shows the exterior beauty and the floor plan reveals the excellent arrangement and special features embodied. Face brick blends with the stucco perfectly. Smooth working steel casement sash are provided.



SIZES:

Extreme Width	36' 0"
Extreme Depth	36' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

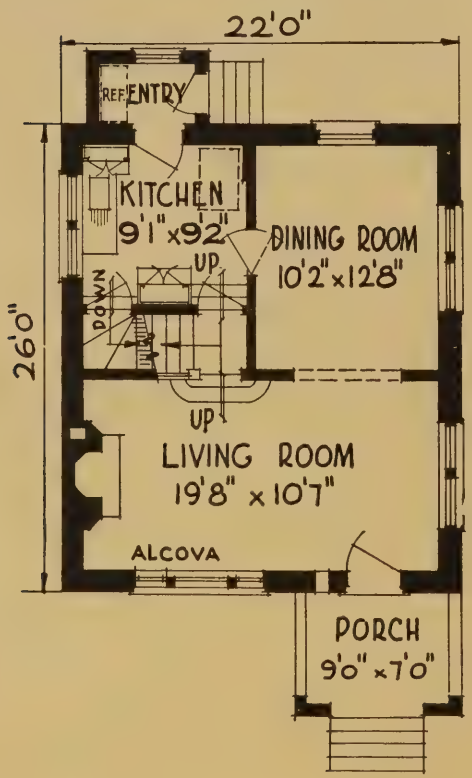
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

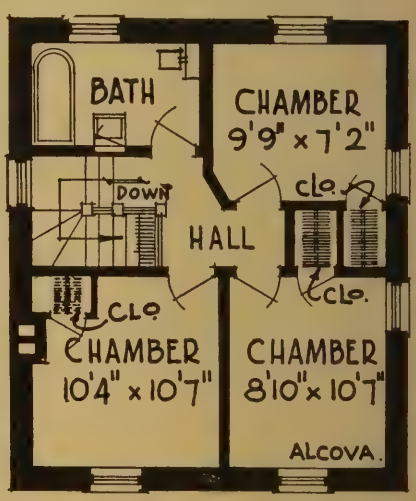
"The ALCOVA"

22 Ft. Wide x 26 Ft. Deep



A SQUARE brick home topped with the everlasting and ornamental tile roof. The walls are 13″ thick, meaning cool comfort in summer, and fuel saved in winter. Space-saving closet fixtures are used, giving added closet comfort, as well as space.

Face brick covers the entire surface of outside walls.



SIZES:

Extreme Width	26′ 0″
Extreme Depth	38′ 0″
First Floor Ceiling	8′ 6″
Second Floor Ceiling	8′ 0″
Basement Ceiling	7′ 0″

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

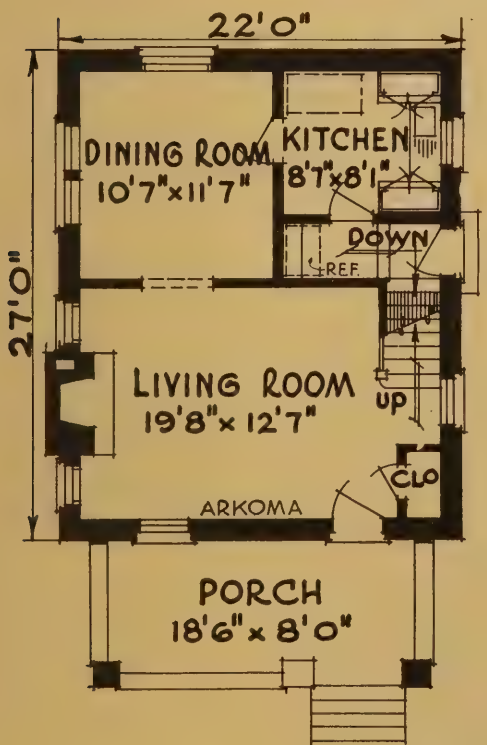
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



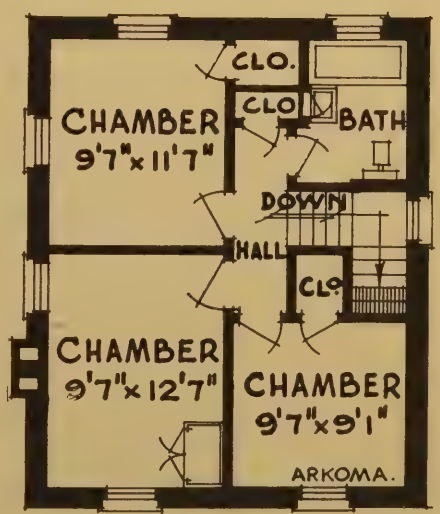
6 Rooms and Bath

"The ARKOMA"

22 Ft. Wide x 27 Ft. Deep



SIMPLE, yet inviting by its very simplicity. The large open porch is a further evidence of its hominess. Inside, good-sized airy rooms bear out the outward attractiveness.



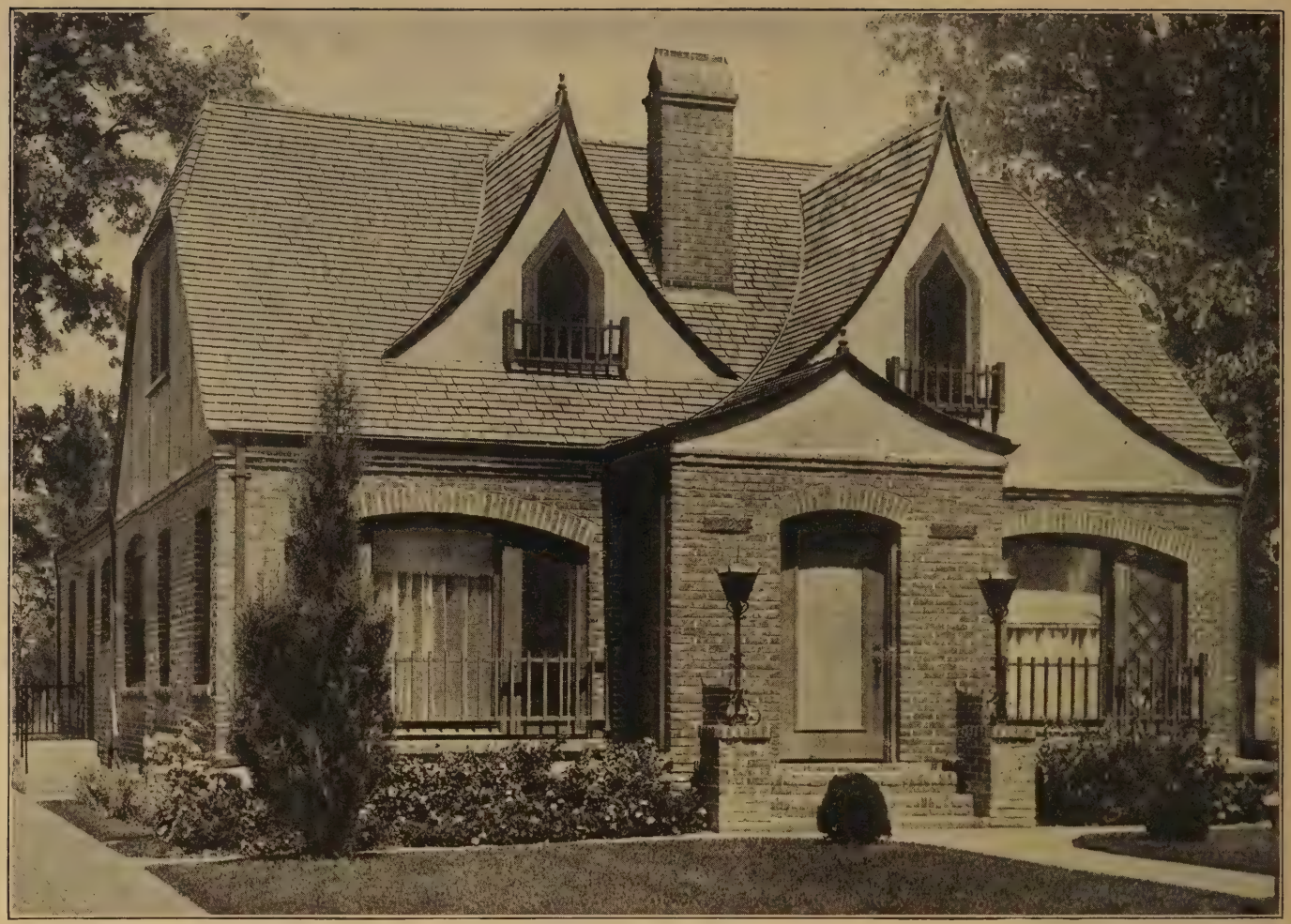
SIZES:

Extreme Width	26' 0"
Extreme Depth	39' 9"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design $20.00
One (1) **Classified Guide** (16 Pages) for listing all Material Items .....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms** .....

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

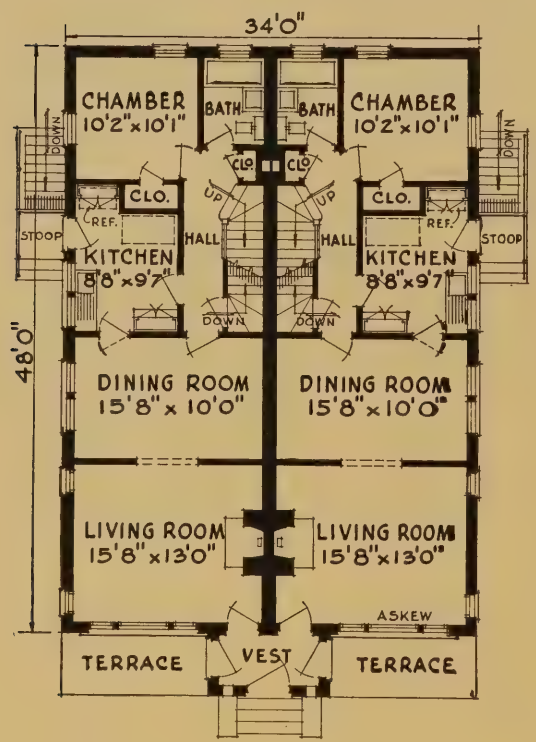


Two Family Home

"The ASKEW"

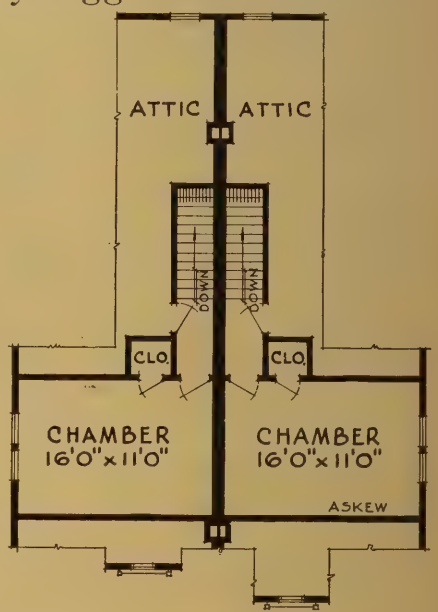
34 Ft. Wide x 48 Ft. Deep

EACH FAMILY HAS 5 ROOMS AND BATH



THE architectural treatment to this double house gives it every suggestion of the modest residence. It is homelike, convenient and inviting, and will well serve the purpose of two families.

This home furnishes an interesting offer, for it will soon pay for itself in rent.



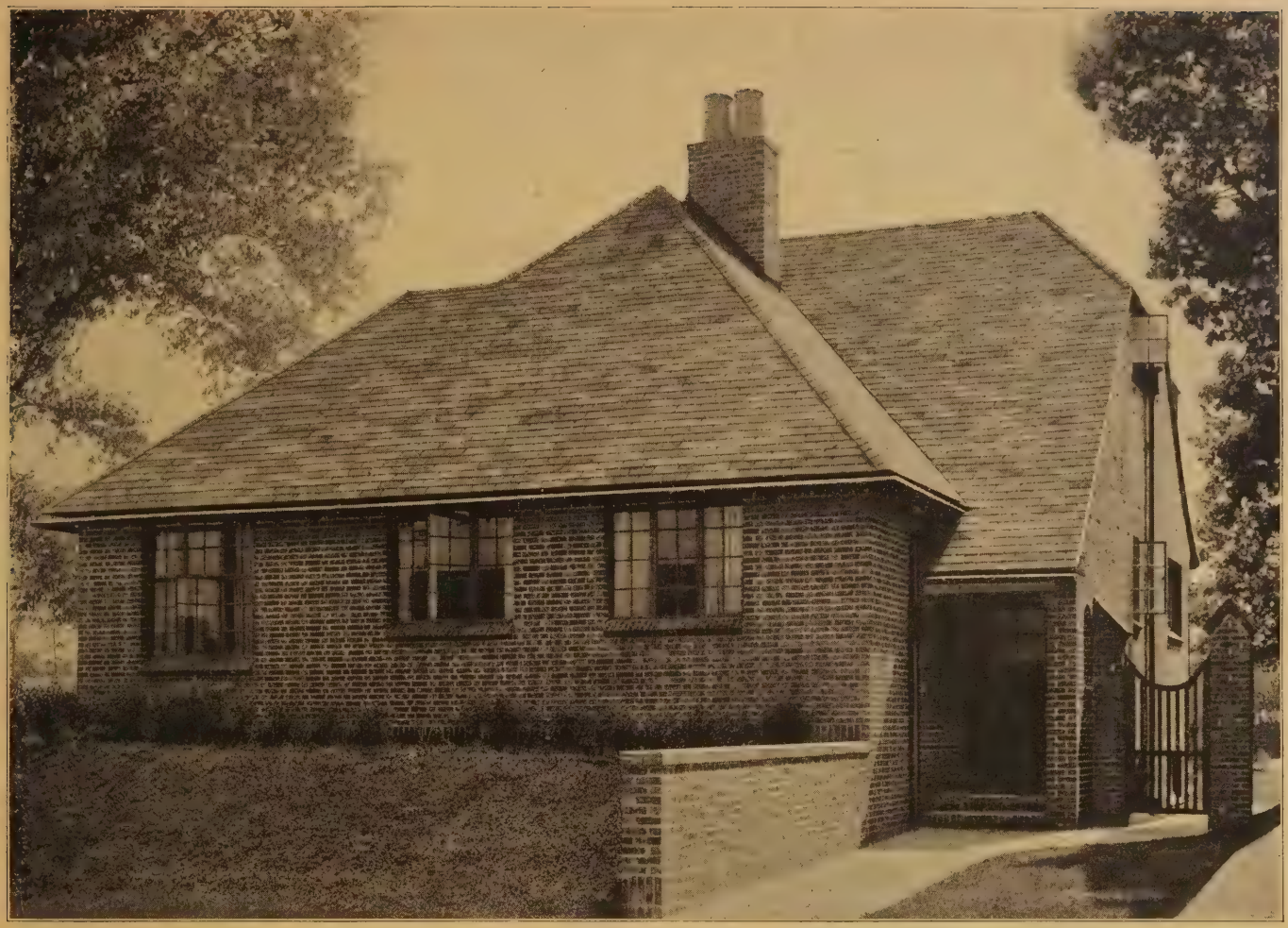
SIZES:

Extreme Width	42' 0"
Extreme Depth	56' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

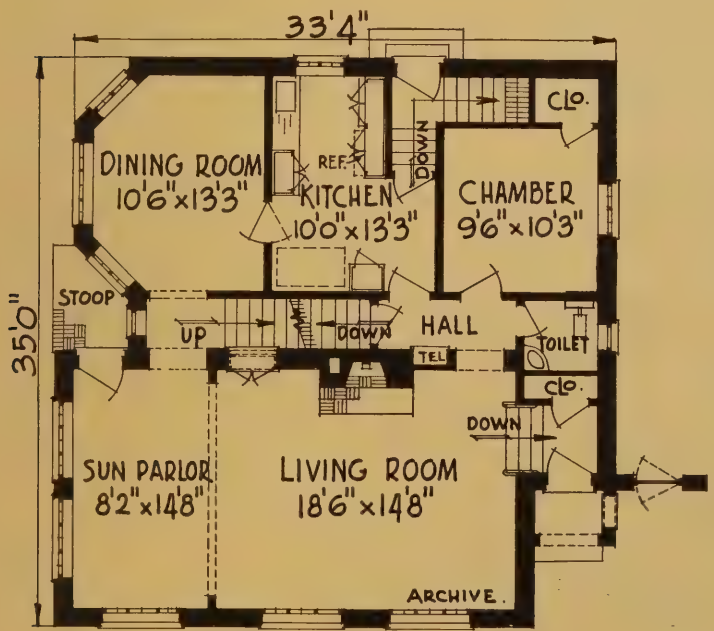


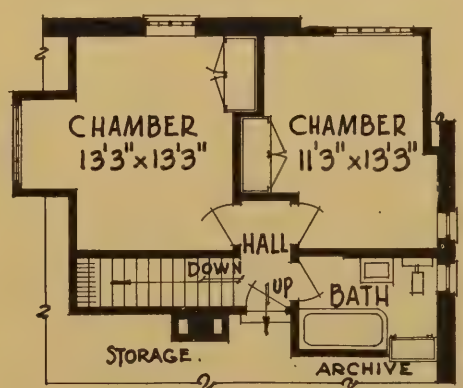
6 Rooms, Bath and Sun Parlor

"The ARCHIVE"

33 Ft. 4 In. Wide x 35 Ft. Deep

PEOPLE of taste desire something without being freakish. To satisfy this want the "Archive" is offered. Face brick laid in Flemish bond provides an effective finish. The living room is designed with extremely high ceiling and all inside is fully equipped for comfort. Steel sash are provided for entire building.





SIZES:

Extreme Width	42' 0"
Extreme Depth	37' 0"
First Floor Ceiling (Living Room)	10' 0"
First Floor Ceiling (Balance)	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

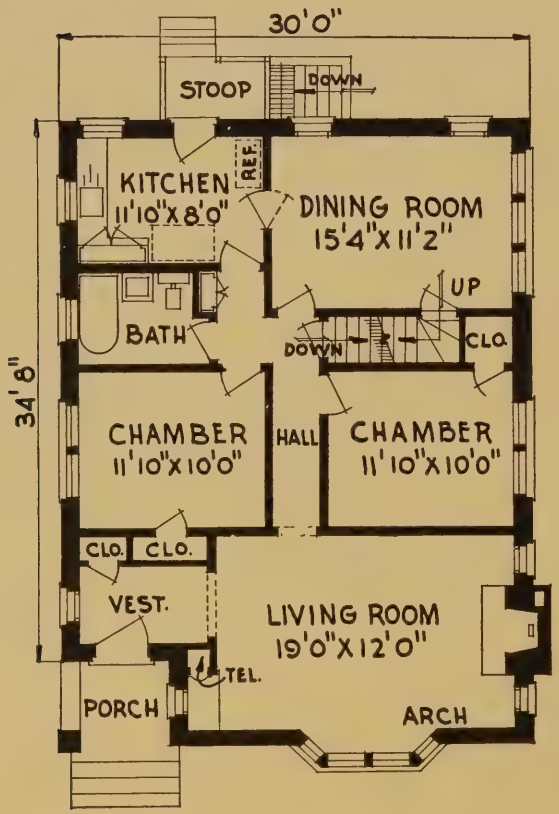
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ARCH"

30 Ft. Wide x 40 Ft. Deep



AN arched entrance is always impressing and when approached by cement steps is more so. All rooms are commodious and each provided with many windows. The living room with its cheerful fire place at one end and bay in front will accommodate many happy guests.

A PLEASING EXAMPLE OF "FACE BRICK" LAID WITH WIDE MORTAR JOINT. PLANS GIVE ALL DETAILS.

SIZES:

Extreme Width	33' 0"
Extreme Depth	50' 6"
Main Floor Ceiling	8' 8"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

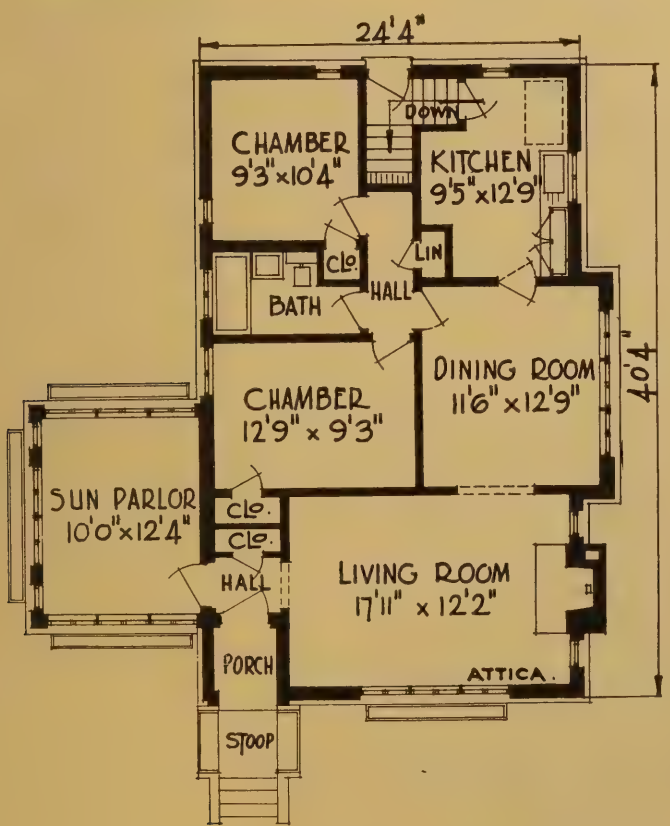
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Sun Parlor

"The ATTICA"

26 Ft. 5 In. Wide x 40 Ft. 4 In. Deep



A BUNGALOW in brick that is permanent, appealing and exceedingly livable. The recessed entrance with seats on the stoop is invitingly beautiful. Rooms within easy access of one another and the many modern conveniences which make for living comfort mark the inside. The sun parlor is a room to fairly revel in. Steel sash are installed in this home.

FACE BRICK FOR OUTSIDE WALLS MEANS NOT ONLY A HOME OF RICH BEAUTY, BUT OF WARMTH, COMFORT AND GREAT DURABILITY AS WELL.

SIZES:

Extreme Width	**42' 0"**
Extreme Depth	**50' 6"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

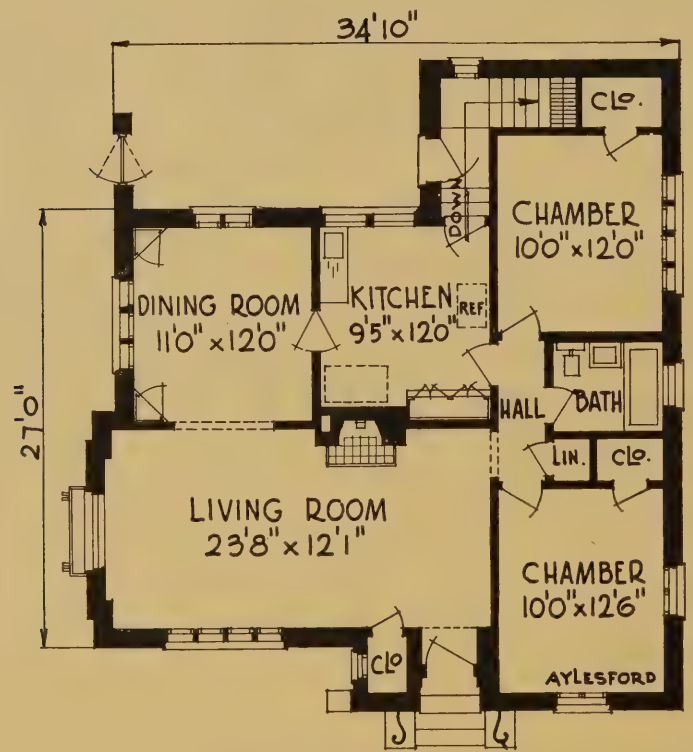


5 Rooms and Bath

"The AYLESFORD"

34 Ft. 10 In. Wide x 40 Ft. Deep

A BUNGALOW of exceptional beauty, breathing charm and refinement. Such features as the many angled roof, the cool receding arched entrance, the white shutters and the high window at left end of living room are much appreciated by the modern builder. One could stay forever in the living room and never tire of it. It is a room of everlasting charm with its big fire place and arched ceiling. Study the picture and floor plan and get the full effect of the "Aylesford."



THIS DESIGN IS AN EFFECTIVE EXAMPLE OF ATTRACTIVENESS AND STABILITY AS EXPRESSED BY WELL LAID FACE BRICK.

SIZES:

Extreme Width	40' 0"
Extreme Depth	43' 0"
Living Room Ceiling	12' 0"
Main Floor Ceiling, Balance	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

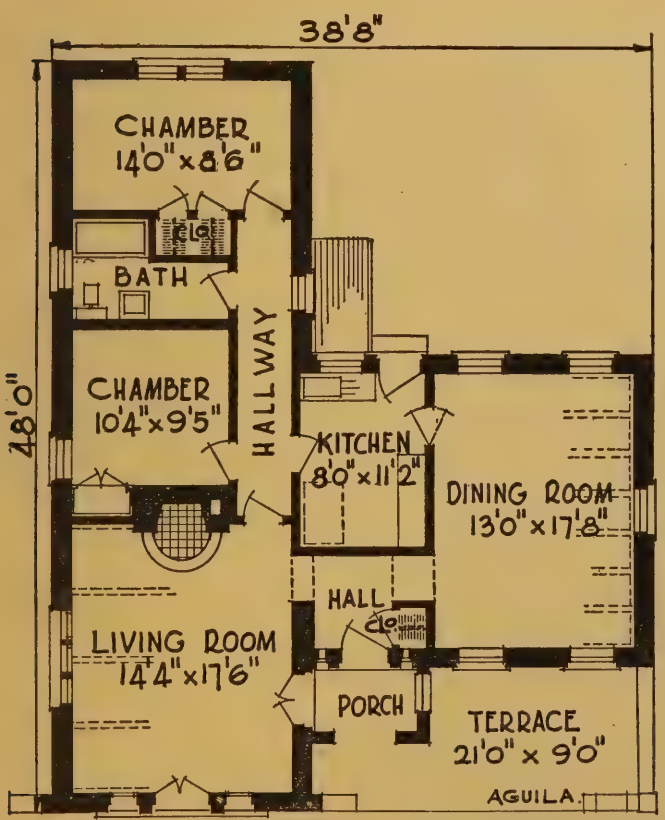
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AGUILA"

38 ft. 8 in. Wide x 48 ft. Deep



THE decorative use of face brick and the tile roof add unusual distinction to this modern home of Spanish design.

All rooms are of adequate size and conveniently arranged. Space saving closets are provided and equipped with adjustable metal coathangers. The arched ceiling of the living room is supported by heavy exposed beams.

The Blue Print Working Plans are Complete and Include Full Details of Construction.

SIZES:

Extreme Width	42' 0"
Extreme Depth	49' 0"
Living Room Ceiling	14' 6"
Main Floor Ceiling (Balance)	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

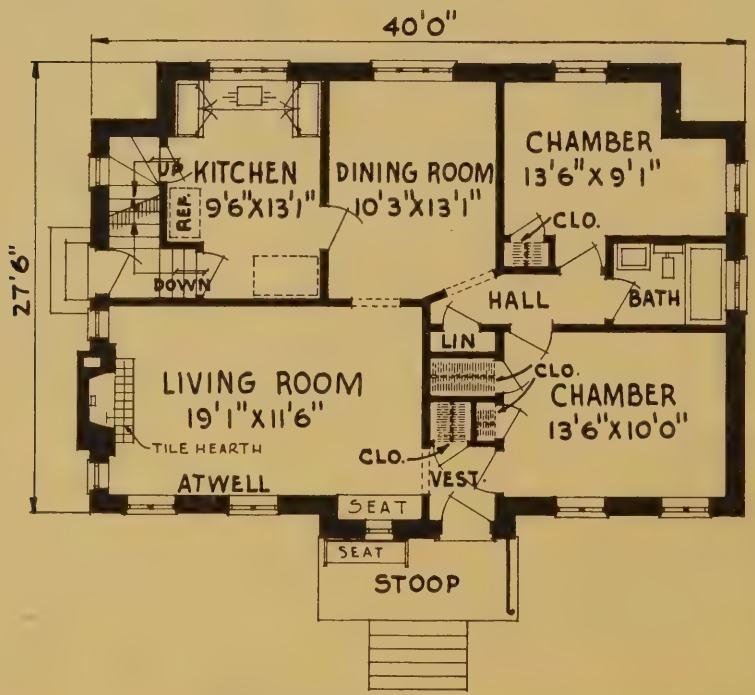


5 Rooms and Bath

"The ATWELL"

40 Ft. Wide x 27 Ft. 6 In. Deep

THE home is the most important single unit of family life. It is the hub of all family activity as well as the seat of happiness. The "Atwell" with its beauty and comfort is a home to be desired. The use of face brick gives it a charm that is permanent. Furthermore, it is supplied with all the modern efficiencies; such as space-saving closet fixtures and built-in kitchen fixtures.



BLUE PRINT PLANS GIVE DETAILS OF SPACE SAVING CLOSETS AND ADJUSTABLE CLOTHES HANGERS. THE STEEL SASH AS PROVIDED FOR THIS HOME ARE ALSO FULLY DETAILED.

SIZES:

Extreme Width	**44' 0"**
Extreme Depth	**39' 6"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

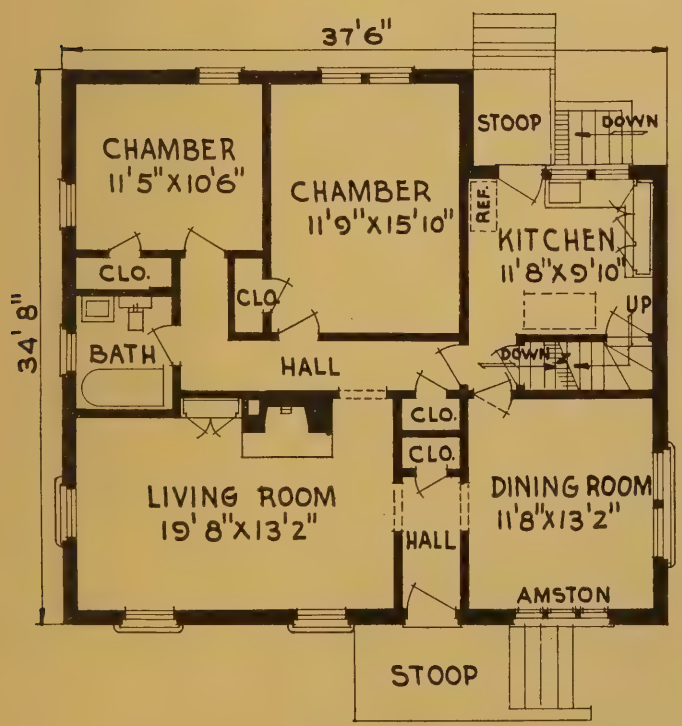
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AMSTON"

37 Ft. 6 In. Wide x 34 Ft. 8 In. Deep



A DAPPER little bungalow that is rich in detail. Neat iron window guards, artistically laid face brick, ornamental roof and occasional white trim are blended into a harmonious whole. By creating two hallways the architect has achieved the exclusiveness of a two story home in the bungalow type. And the inherent convenience of a bungalow is retained. The "Amston" is ingenuous and delightful, a home to be desired.

"ASPHALT SHINGLES" OF VARIEGATED COLORS FOR ROOF WITH WALLS OF CAREFULLY LAID "FACE BRICK." PLANS GIVE ALL CONSTRUCTION DETAILS.

SIZES:

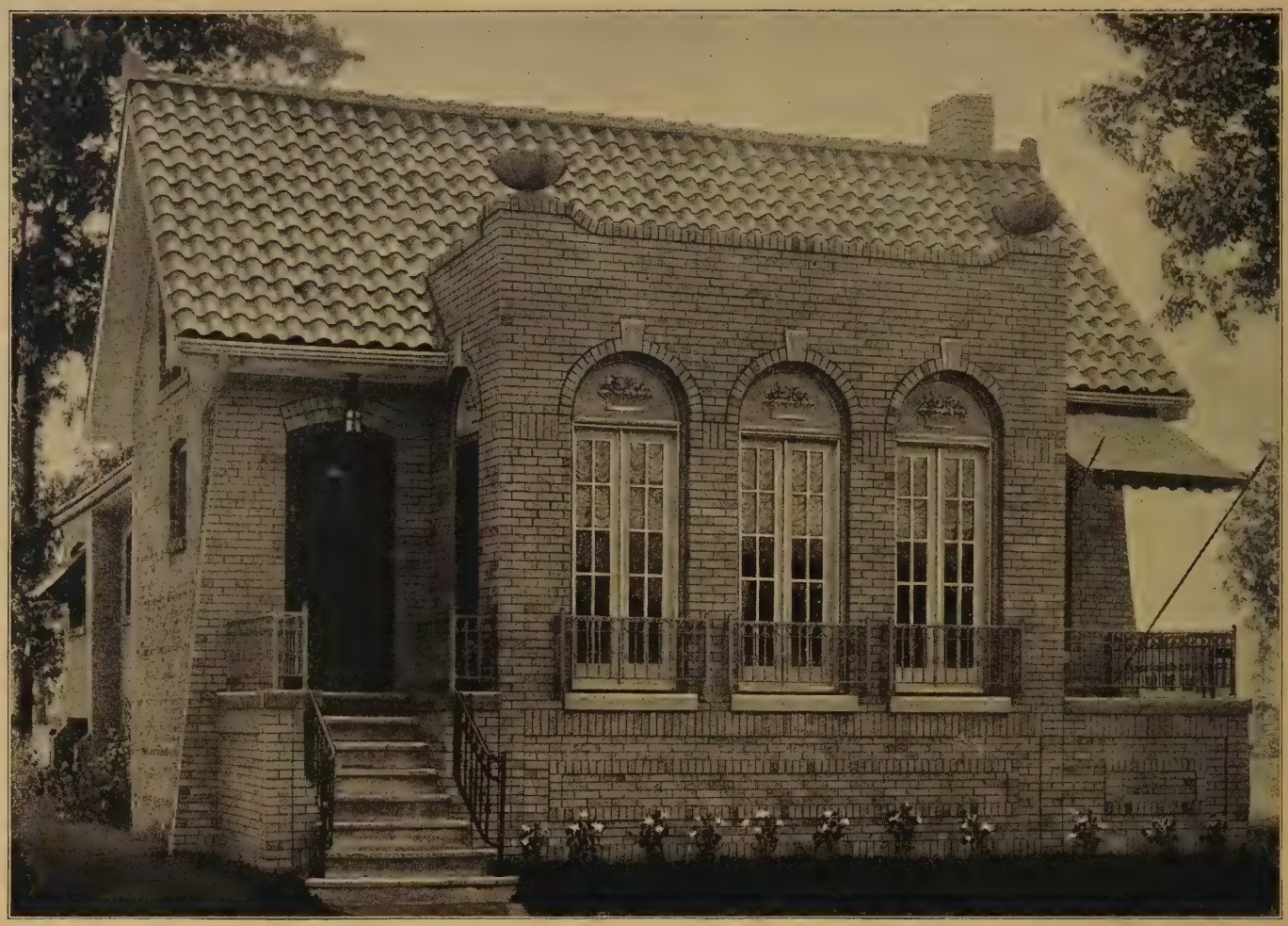
Extreme Width	**41' 0"**
Extreme Depth	**44' 0"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

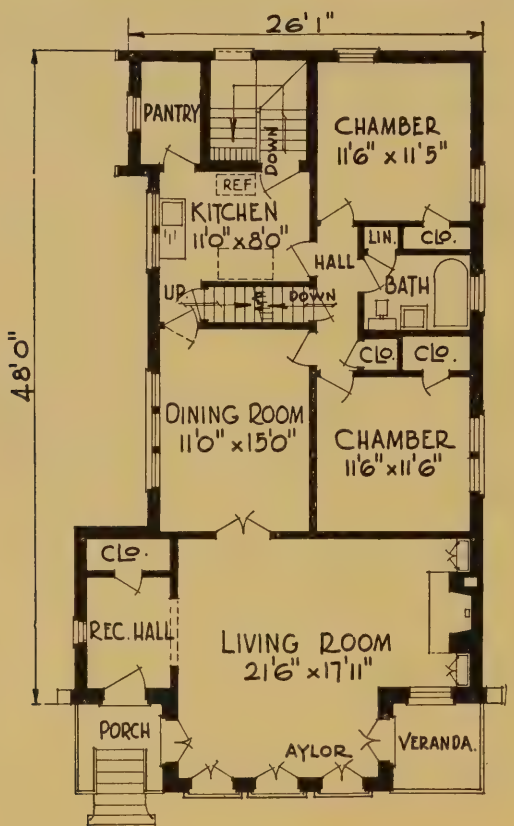
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AYLOR"

30 Ft. Wide x 54 Ft. 6 In. Deep



"VERY attractive" is the exclamation of the passerby. Rich in artistic detail, it is constructed so as to present a magnificent and harmonious home. The living room is a dream. Look at the floor plan and visualize the beautiful interior. Your imagination will give you some suggestion of its splendor.

FACE BRICK, FRONT WALLS, COMMON BRICK REAR AND SIDE WALLS AND SPANISH TILE FOR ROOF ARE ALL BLENDED INTO A PERMANENT STRUCTURE. SEE PLANS.

SIZES:

Extreme Width	33' 0"
Extreme Depth	58' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design.....
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**..... **$20.00**

Secure above plans, etc. from your local Lumber or Building Material Dealer.

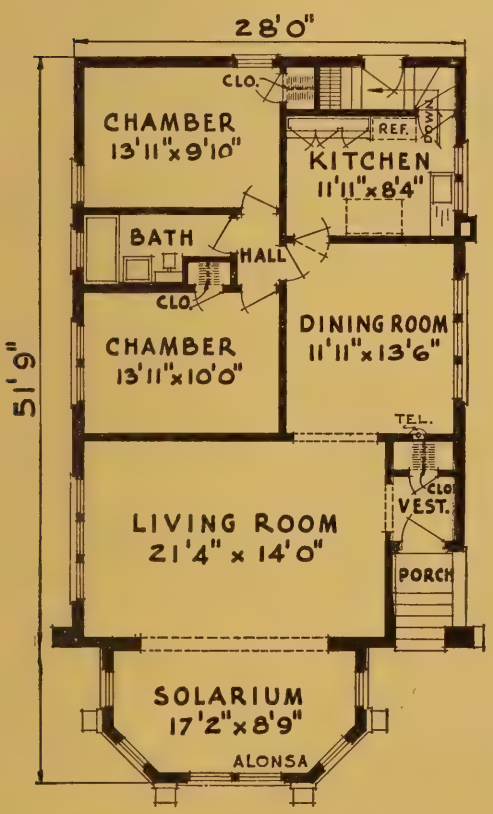
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Solarium

"The ALONSA"

28 Ft. Wide x 51 Ft. 9 In. Deep



THE artistic use of stone for trimming the face brick front gives richness and variety to the appearance of the "Alonsa." A tile roof always goes well with brick. Stand for a moment in the living room and get the full effect of the combined living room and solarium. The other rooms in the house are impressive. The kitchen is a model of convenience.

IF INTERESTED IN THIS HOME, FURTHER INFORMATION AND FULL DETAILS CAN BE OBTAINED FROM THE BLUE PRINT PLAN.

SIZES:

Extreme Width	34' 0"
Extreme Depth	57' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

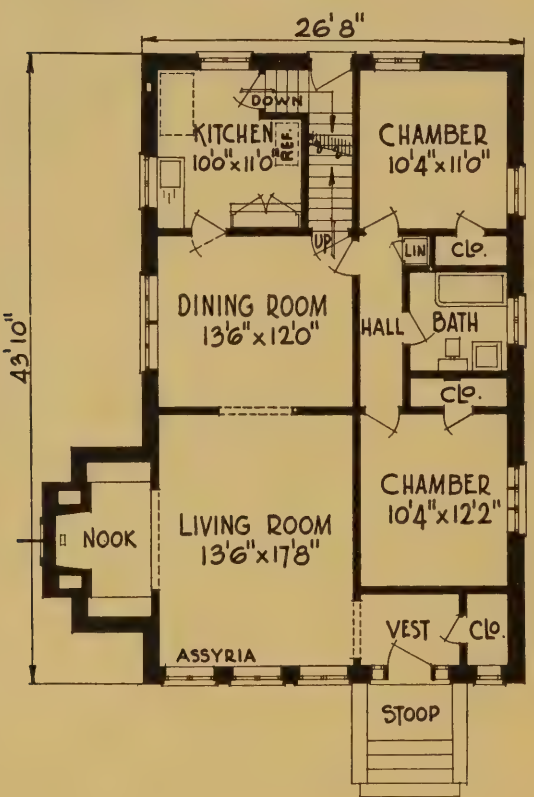
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Nook

"The ASSYRIA"

26 Ft. 8 In. Wide x 43 Ft. 10 In. Deep



A BUNGALOW with a distinct style. It is as though the architect had stamped his own personality upon it. Sturdy and beautiful, the qualities which face brick give to a home. Lose yourself for a moment in the living room with its recessed nook and fireplace. There is an attic for storage, a feature to be considered.

THIS HOME IS EQUIPPED WITH STEEL SASH. PLANS GIVE DETAILS OF INSTALLATION

SIZES:

Extreme Width	**37' 6"**
Extreme Depth	**53' 6"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design..... **$20.00**
One (1) **Classified Guide** (16 Pages) for listing all Material Items.....
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**.....

Secure above plans, etc. from your local Lumber or Building Material Dealer.

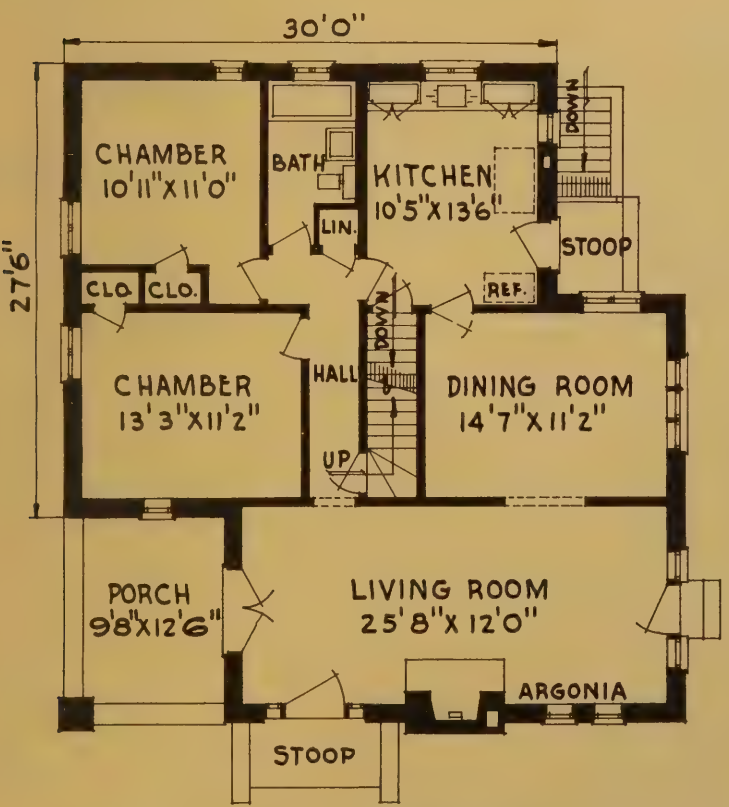
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ARGONIA"

37 Ft. 8 in. Wide x 40 Ft. Deep



THE broad sloping roof, the big chimney, the open porch, the clever entrance all individualize the "Argonia." The floor plan is devised to offer every possible convenience and to utilize every inch of space. It satisfies the two requisites of the home-seeker of being good to look at and comfortable to live in. Steel sash further add to the durability and effectiveness of this home.

BLUE PRINT PLANS OF THIS BRICK CONSTRUCTED HOME GIVE ALL CORRECT DETAILS WHICH ELIMINATES MISUNDERSTANDING.

SIZES:

Extreme Width	**44' 6"**
Extreme Depth	**46' 6"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

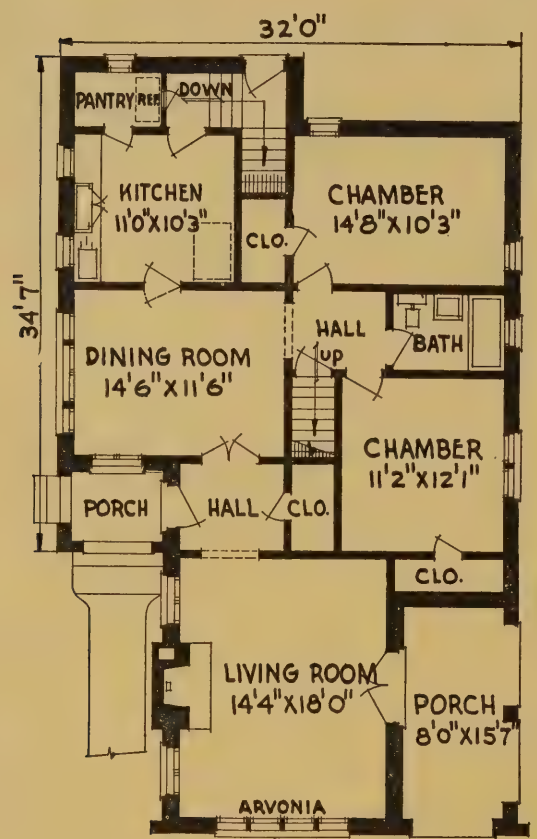
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ARVONIA"

32 Ft. Wide x 53 Ft. 11 In. Deep



A LOW rambling bungalow that promises comfort and cheerfulness. The distribution of rooms merits especial consideration. First of all the living room is off by itself and has an adjoining private porch. The dining room is easily accessible and the kitchen is a model of convenience. In short there is all the exclusiveness of a two story home on one floor.

FACE BRICK EXTERIOR WITH STUCCO AND TIMBERED GABLES. STEEL CASEMENT SASH ARE INSTALLED THRUOUT THE ENTIRE HOME.

SIZES:

Extreme Width	34' 6"
Extreme Depth	57' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

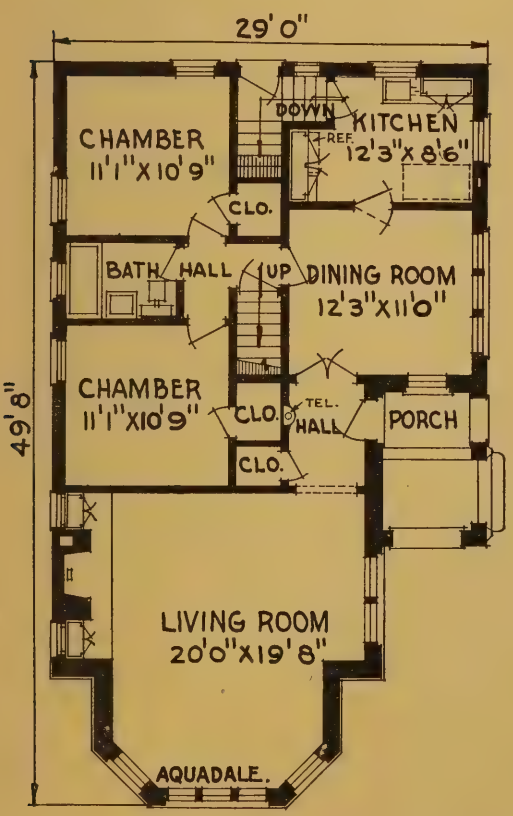
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AQUADALE"

29 Ft. Wide x 49 Ft. 8 In. Deep



THE "Aquadale" at once impresses you with its solidity and beauty. There is a permanence in the style itself that will never grow tedious. The arched porch openings carry out the monumentality of the whole style. On the inside is found a living room that is spacious and interesting. You can see for yourself how the many windows will afford an abundance of air and sunlight. The other rooms are comfortable also.

THE PLANS GIVE ALL DETAILS IN A CLEAR PRACTICAL MANNER TO ENABLE THE BUILDER TO ERECT WITHOUT MISUNDERSTANDING AND DELAY.

SIZES:

Extreme Width	32' 6"
Extreme Depth	52' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

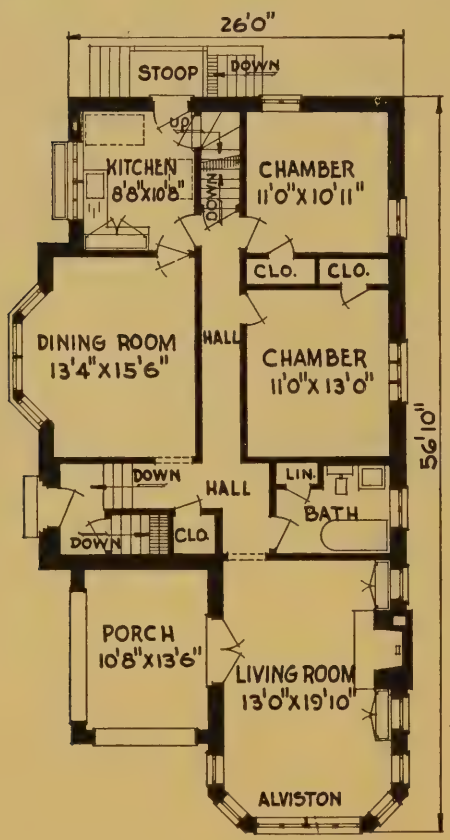
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALVISTON"

26 Ft. Wide x 36 Ft. 10 In. Deep



UNUSUALLY fetching the "Alviston" reveals a charm all its own. Pleasing as the exterior is we must go inside to find the real beauty. First there is the living room with its enormous bay and adjoining porch. Then we go to the dining room also with bay. The chambers are segregated and the kitchen is complete. What more could be desired in a bungalow?

STEEL SASH ARE PROVIDED FOR THIS ENTIRE HOME. ASPHALT SHINGLES OF VARIOUS COLORS ARE USED FOR ROOF. EXTERIOR WALLS OF FACE BRICK.

SIZES:

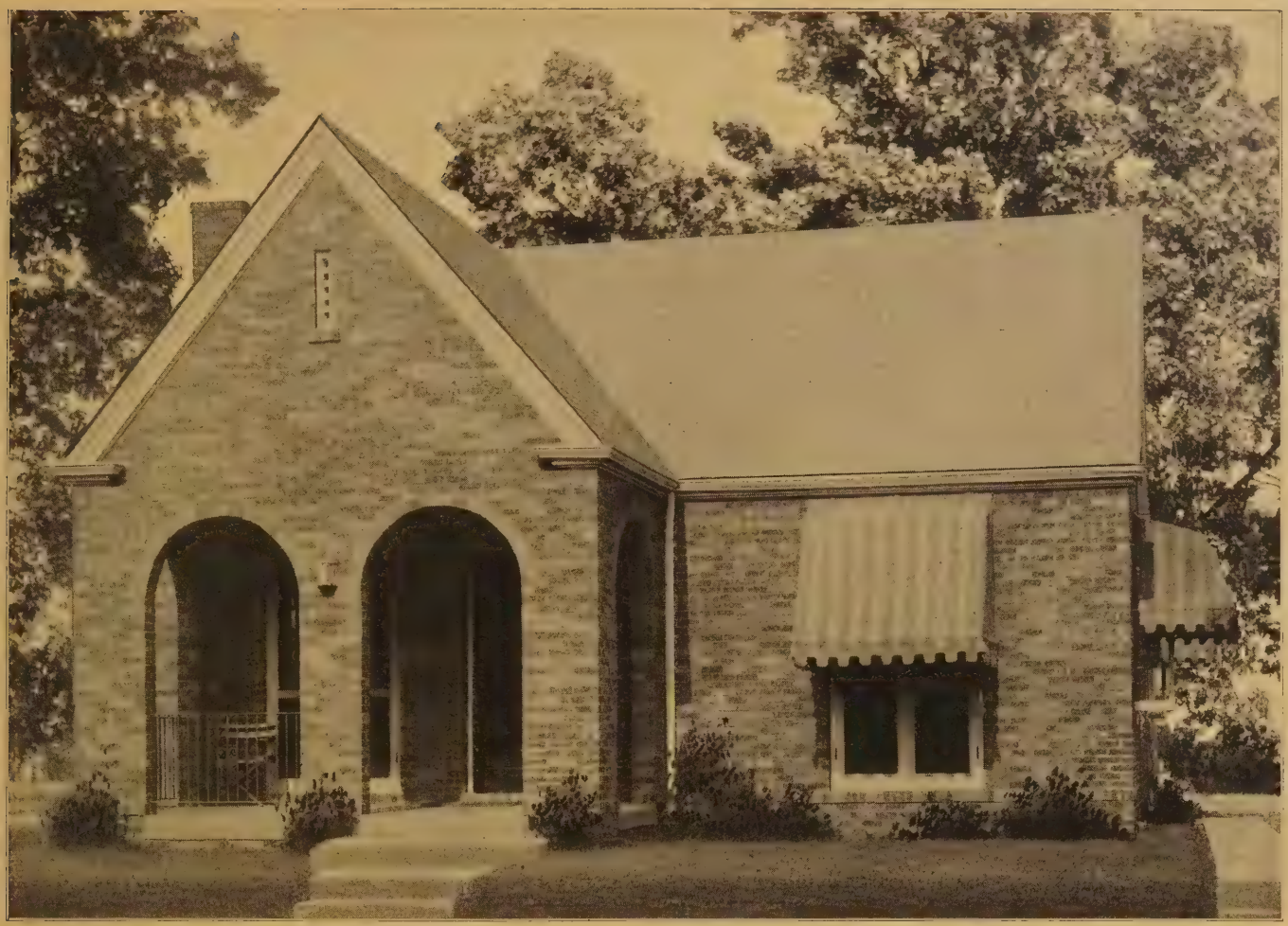
Extreme Width	32' 6"
Extreme Depth	61' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

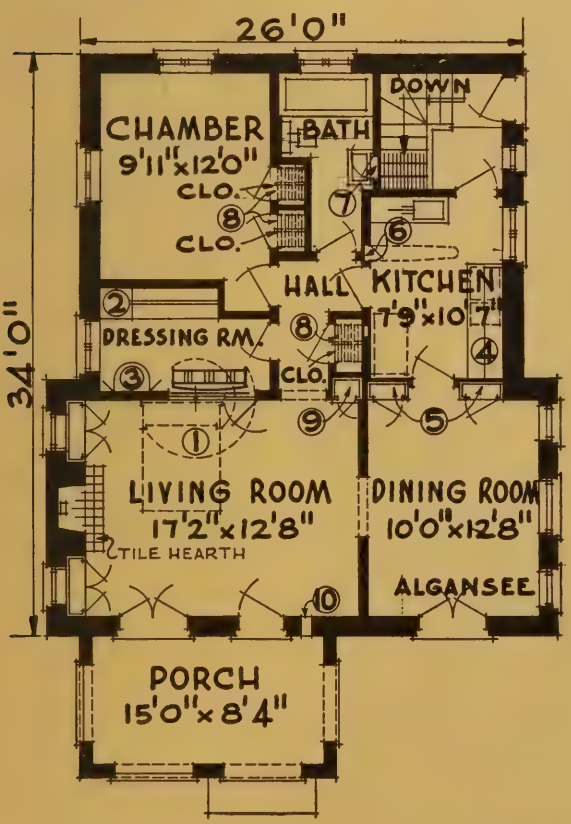
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Dressing Room

"The ALGANSEE"

28 Ft. Wide x 34 Ft. Deep



A HANDSOME home with face brick exterior. Four rooms with five room efficiency. The living room with the full size disappearing bed makes an ideal bedroom at night. Kitchen is fully equipped with space and labor saving devices. The maximum light is provided by the use of steel casement sash.

KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Bed"
2—"Dressing Cabinet"
3—"Dressing Table"
4—"Combination Kitchen Cabinet and Refrigerator"
5—"China Cabinets"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
8—"Adjustable Clothes Hangers"
9—"Telephone Cabinet"
10—"Built-in Mail Box"

SIZES:

Extreme Width	31' 6"
Extreme Depth	44' 9"
Main Floor Ceiling	8' 6"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

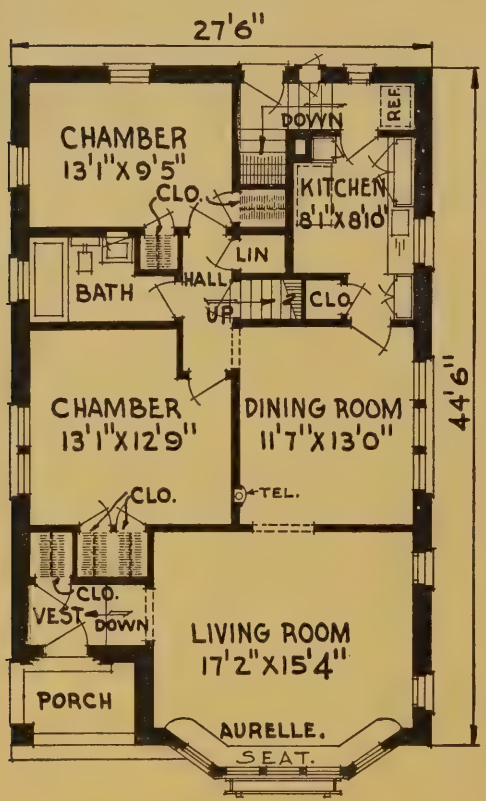
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AURELLE"

27 Ft. 6 In. Wide x 44 Ft. 6 In. Deep



A BUNGALOW that is pleasing to the eye and comfortable to live in. The entrance is artistic and inviting. The living room with its bay and seat is a constant source of pleasure. There are any number of attractive features that are easily seen in studying the picture and floor plan. The main thing to remember is that this attractiveness can be had at a very nominal sum.

THE EXTERIOR CONSTRUCTION OF THIS HOME IS OF FACE BRICK, TILE, STUCCO AND CONCRETE, THEREFORE IT IS DURABLE AND SUBSTANTIAL.

SIZES:

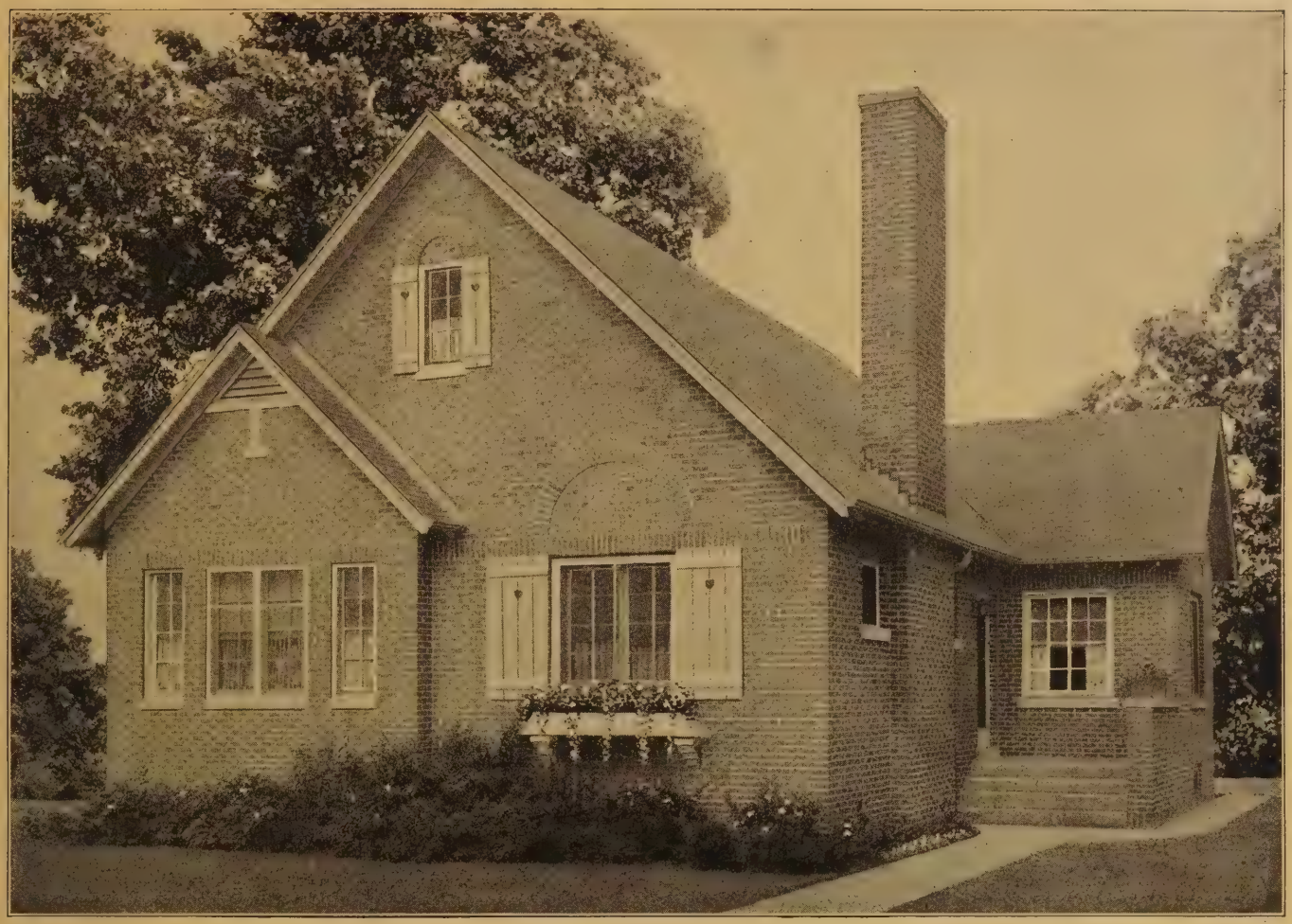
Extreme Width	32′ 0″
Extreme Depth	50′ 0″
Main Floor Ceiling	8′ 6″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

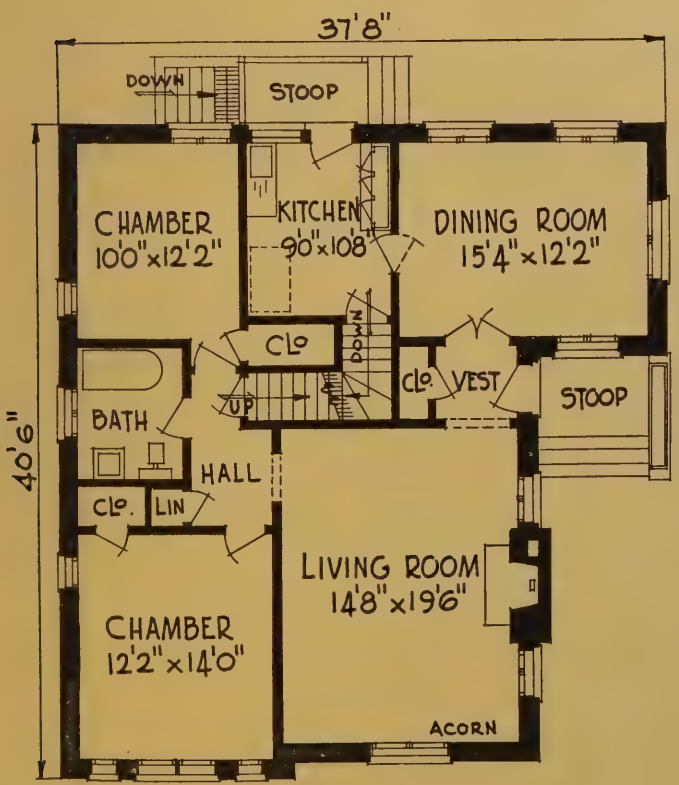
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ACORN"

37 Ft. 8 In. Wide x 40 Ft. 6 In. Deep



WHEN all is said and done a home should have a style of its own, something to set it apart from its neighbors. The "Acorn" has this elusive quality. It is a bungalow that will be remembered by those who see it. The interior arrangement is a happy one, each room being apart by itself.

"STEEL SASH" AND "FACE BRICK WALLS" MAKE AN EFFECTIVE COMBINATION OF STRENGTH, COLOUR AND ATTRACTIVENESS.

SIZES:

Extreme Width	41' 0"
Extreme Depth	46' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

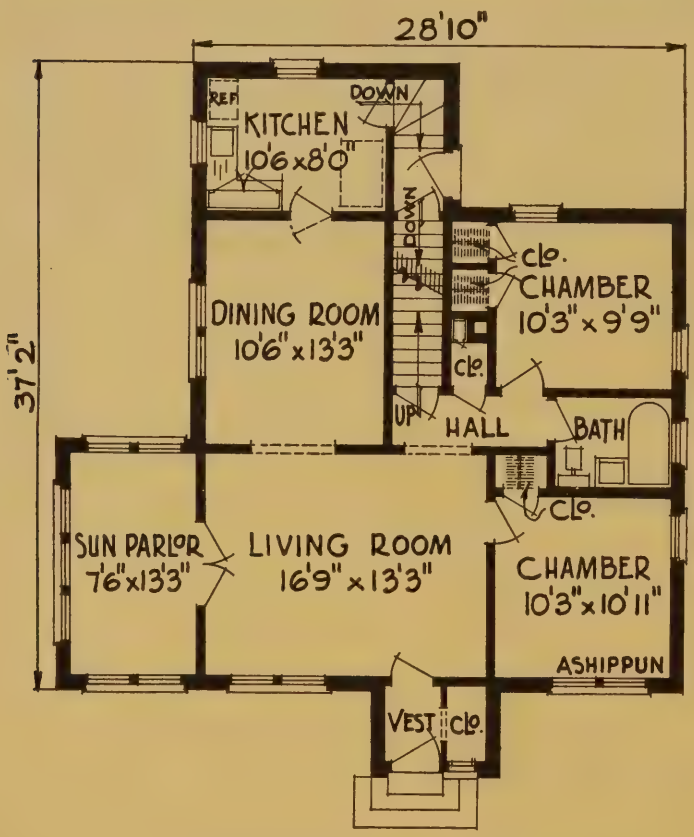
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Sun Parlor

"The ASHIPPUN"

28 Ft. 10 In. Wide x 37 Ft. 2 In. Deep



A CHARMING bungalow in Brick Veneer tastily set off by the siding in the gables. The entrance is dignified and imposing and backed up by a vestibule with closet. Space-saving closet fixtures, a clothes chute, kitchen cabinets, are the modern conveniences included. The rooms are large and pleasant.

THE BLUE PRINT PLANS ARE COMPLETE, COMPREHENSIVE, AND GIVE CORRECT SIZES AND DIMENSIONS.

Extreme Width	41' 6"
Extreme Depth	47' 6"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

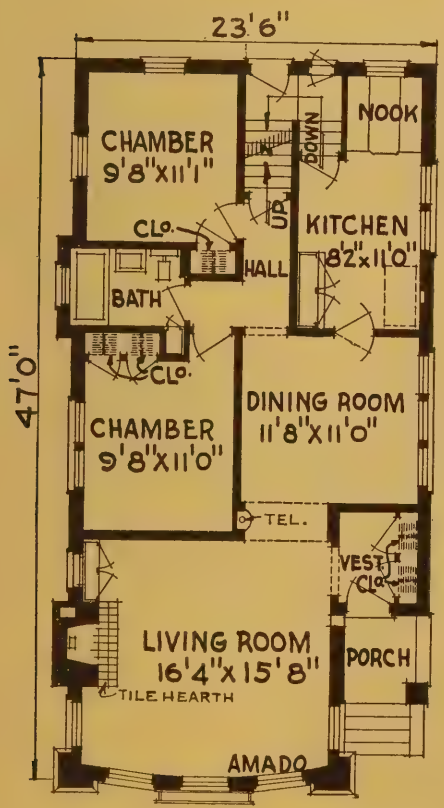
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Dining Nook

"The AMADO"

23 Ft. 6 In. Wide x 47 Ft. Deep



THE modern home seeker wants comfort and convenience at a nominal sum. To find all these requirements met by a beautifully appearing home at the same time is indeed lucky. The picture suggests the beautiful exterior. The floor plan reveals the comfort. And for convenience there are space-saving closet fixtures, a built-in telephone cabinet, an attic for storage and a delivery receptacle in rear.

TILE-ROOF, FACE BRICK, FLAG STONE PIERS AND STUCCO GABLES—A COMBINATION OF STRENGTH, DURABILITY AND ATTRACTIVENESS.

SIZES:

Extreme Width	27' 6"
Extreme Depth	51' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

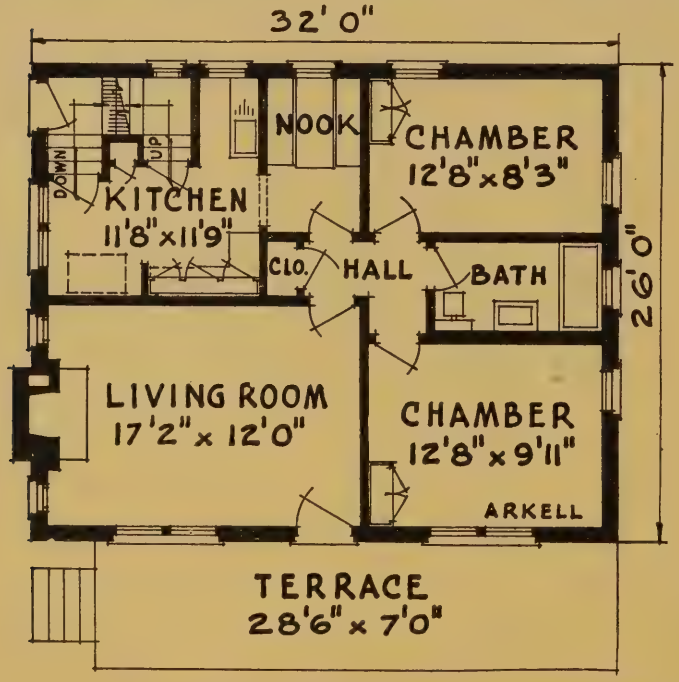


4 Rooms, Bath and Nook

"The ARKELL"

32 Ft. Wide x 26 Ft. Deep

AN EFFECTIVE bungalow of the English style. The large terraced veranda provides for many comfortable summer evenings. The cozy dining nook off the kitchen will be appreciated. Good sized chambers with the bath between is an added advantage. The hall is placed so as to set each room off by itself.



BY BUILDING FROM PRACTICAL AND PROVEN PLANS MISTAKES AND COSTLY ERRORS ARE AVOIDED.

SIZES:

Extreme Width	33' 6"
Extreme Depth	34' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

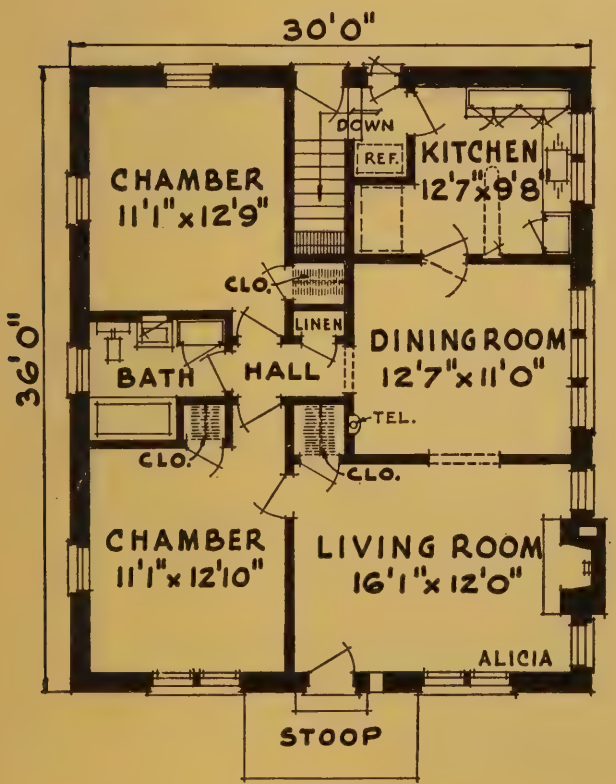
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALICIA"

30 Ft. Wide x 36 Ft. Deep



THERE is a magnificence and splendor here that is rarely found in a small home. Perhaps it lies in the decorative entrance or perhaps in the rich tile roof. At any rate the whole effect is charming and luxurious. Inside you will find the coziness and handiness you have always wanted. On account of its simple, straight lines it is very reasonable to build.

FACE BRICK AND TILE ROOF IS AN ATTRACTIVE AND DURABLE COMBINATION. PLANS GIVE COMPLETE WORKING DETAILS.

SIZES:

Extreme Width	34' 0"
Extreme Depth	43' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

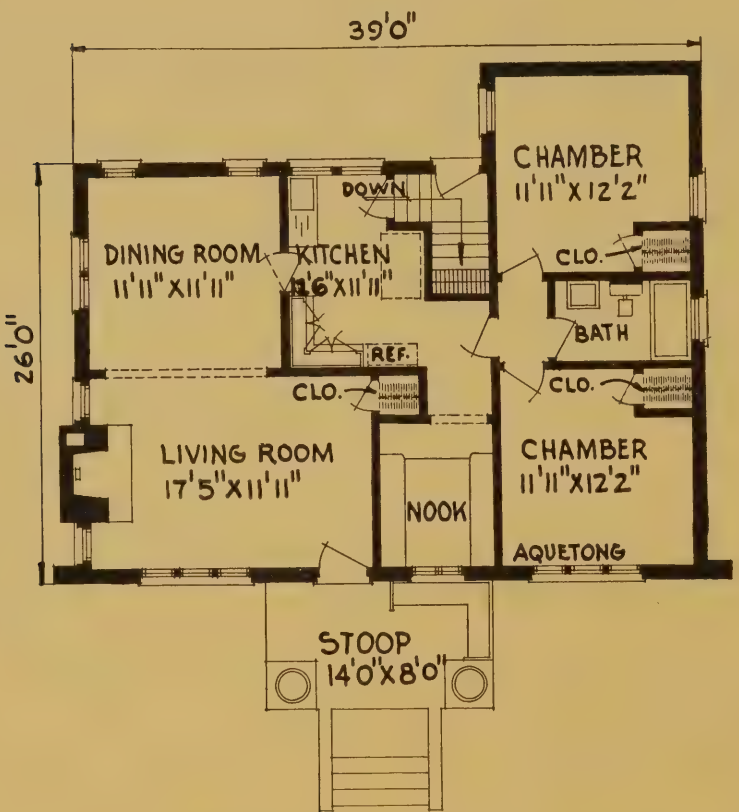
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Dining Nook

"The AQUETONG"

39 Ft. Wide x 32 Ft. Deep



TRIM, neat and stylish the "Acquetong" offers the best in bungalows. The entrance with its corner seat on stoop immediately charms. Face brick enhances the beauty of this particular style. The arrangement is perfect and provokes ideas for attractive furnishing. All in all a more livable bungalow would be hard to find.

PLANS GIVE ALL CONSTRUCTION DETAILS IN A MANNER EASY TO UNDERSTAND.

SIZES:

Extreme Width	**45' 0"**
Extreme Depth	**48' 6"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

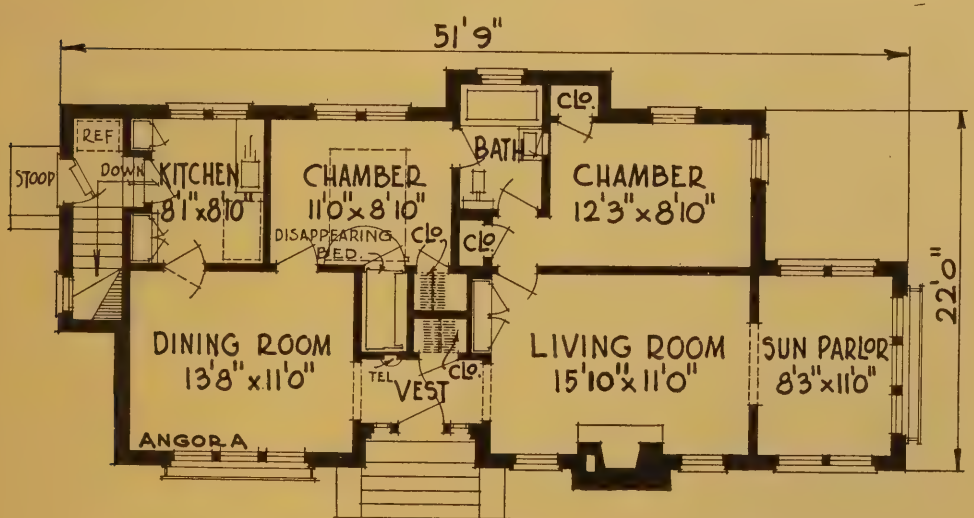


5 Rooms, Bath and Sun Parlor

"The ANGORA"

51 Ft. 9 In. Wide x 22 Ft. Deep

THE rustic stone chimney is the first thing that catches your attention. Then your eye turns to the arched entrance. You then carefully examine the exterior and are pleased with every detail. The floor plan deserves study. It is highly suggestive and by using your imagination you can catch some of the inside beauty and handiness of the "Angora." There are many efficiencies such as a disappearing bed, a delivery receptacle in door, a built-in phone cabinet and space saving closet fixtures.



PLANS GIVE ALL CONSTRUCTION DETAILS

SIZES:

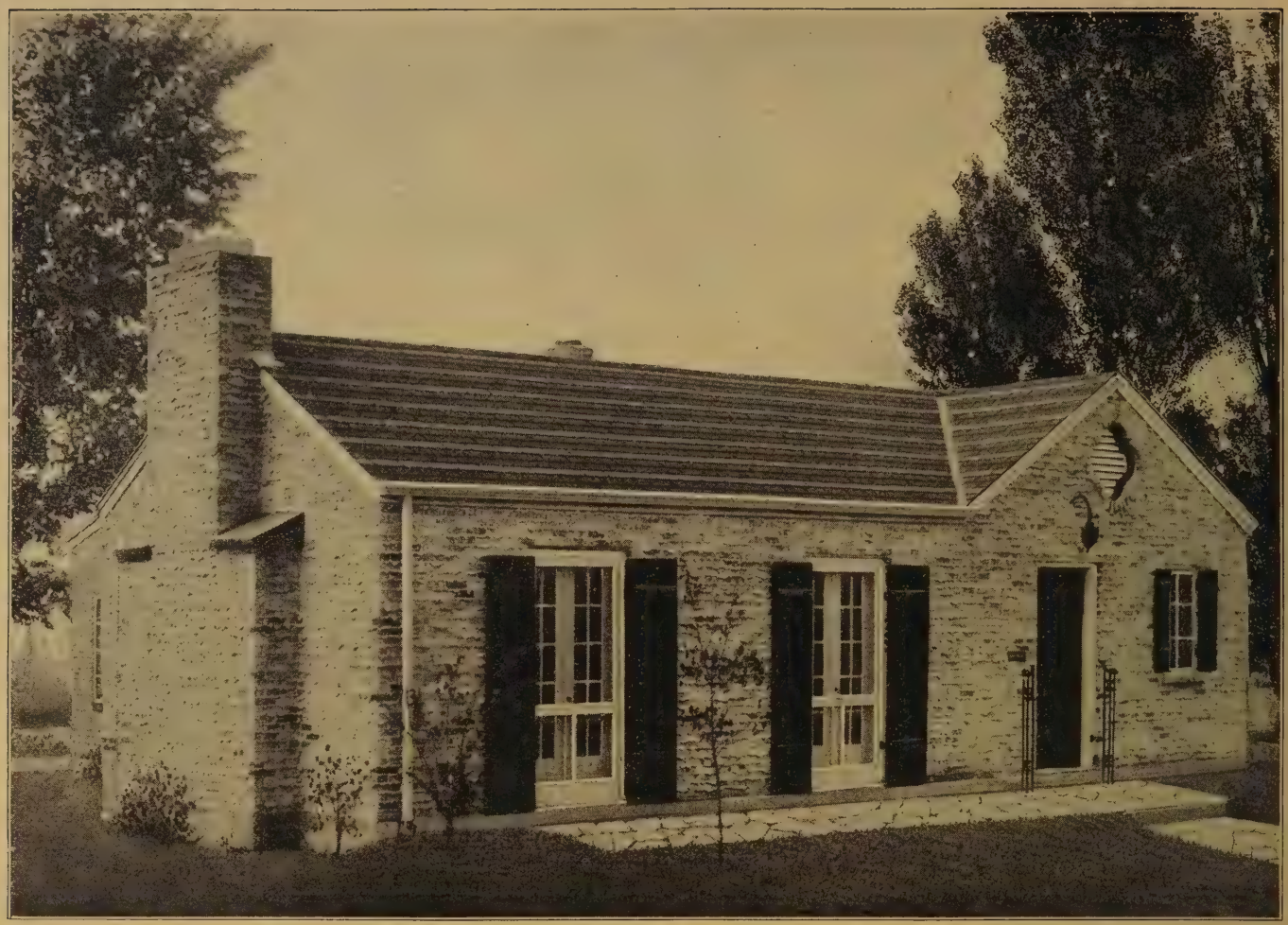
Extreme Width	56' 9"
Extreme Depth	28' 3"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

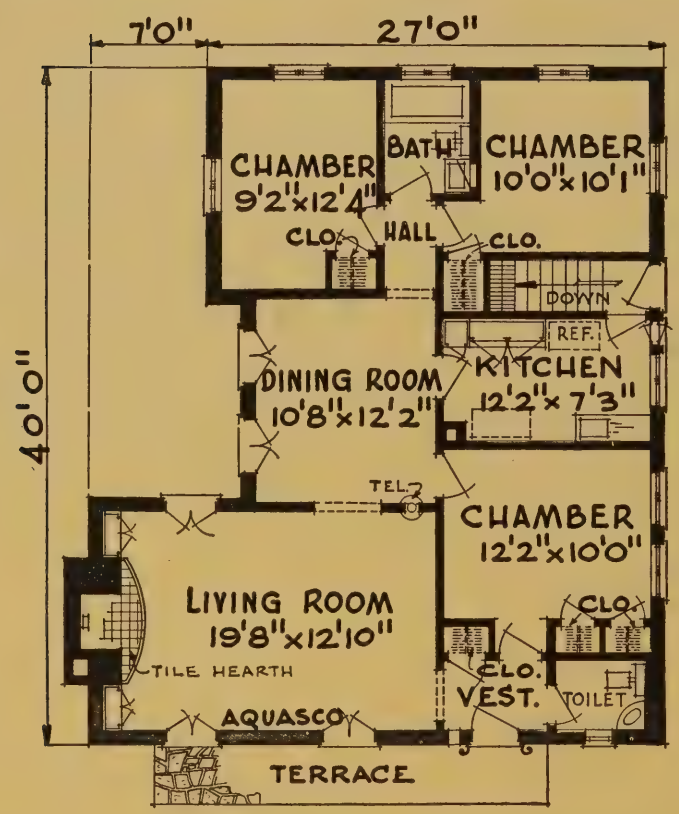
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms, Bath and Toilet

"The AQUASCO"

34 Ft. Wide x 40 Ft. Deep



A PART in its picturesqueness the "Aquasco" grasps the attention of the passerby. Nor does he give it a mere passing glance for it fairly captivates with its quaintness. With all its rustic appearance it is strictly modern being fully equipped with space saving closet fixtures. a built-in telephone cabinet and steel sash throughout.

THIS DESIGN IS A PLEASING EXAMPLE OF RUSTIC FACE BRICK WORK WITH ROOF OF ALTERNATELY COLORED ASBESTOS SHINGLES.

SIZES:

Extreme Width	36' 6"
Extreme Depth	44' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

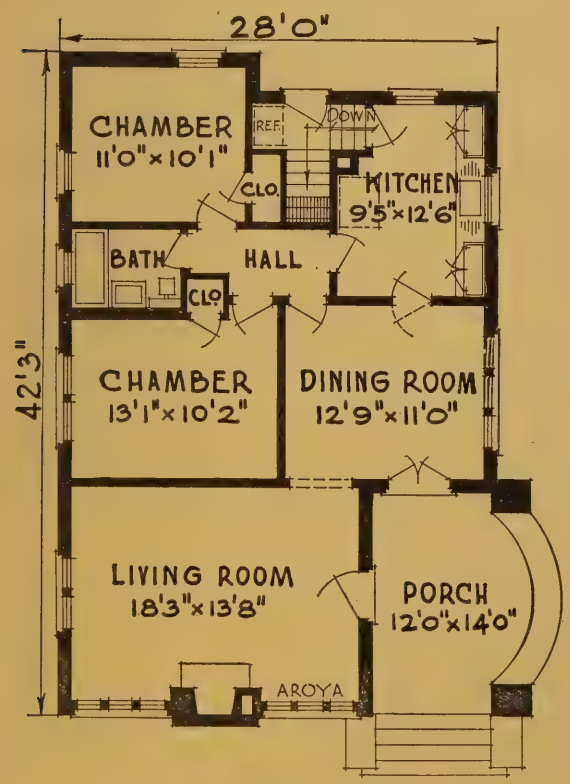
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AROYA"

28 Ft. Wide x 42 Ft. 3 In. Deep



THE "AROYA" at once gives the impression of permanence. The stone-faced chimney and porch lend the necessary variety to the exterior. From the porch one steps directly into the expansive living room. The interior is further enhanced by a kitchen equipped with all the modern, handy conveniences. This bungalow can be admirably placed in any suburb or small community.

SIZES:

Extreme Width	**36′ 3″**
Extreme Depth	**49′ 0″**
Main Floor Ceiling	**9′ 0″**
Basement Ceiling	**7′ 0″**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**
$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

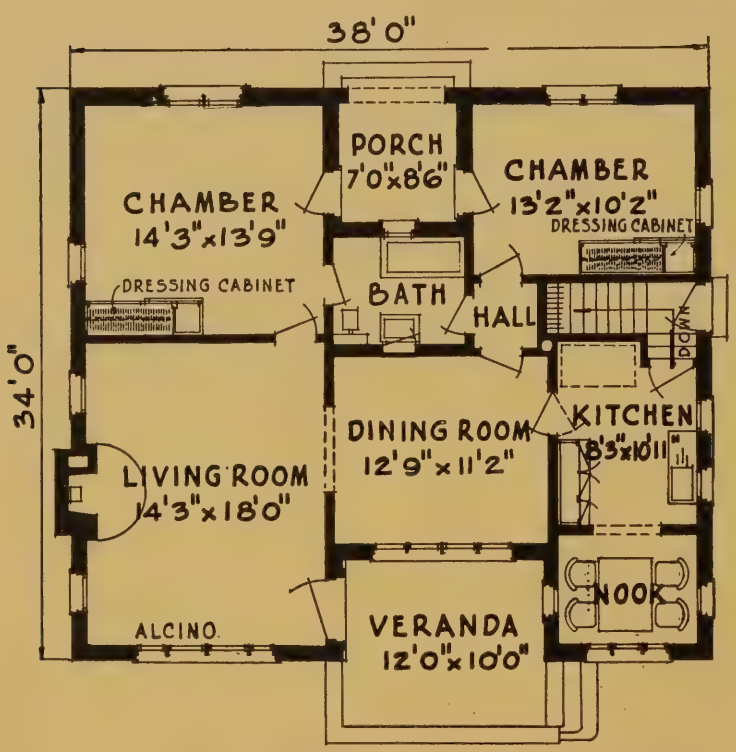
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Dining Nook

"The ALCINO"

38 Ft. Wide x 34 Ft. Deep



FIRST there is the veranda and majestically arched entrance. Then there is the commodious living room with its arched ceiling. From the living room you wander through the home at will, delighted at every turn. Neat dressing cabinets equipped with space saving closet fixtures replace clumsy closets.

A beautiful example of mingled shades of face brick carefully blended to produce an everlasting harmonious color scheme.

SIZES:

Extreme Width	40' 0"
Extreme Depth	40' 6"
Main Floor Ceiling (Living Room 10' 9")	
Balance	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms
$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

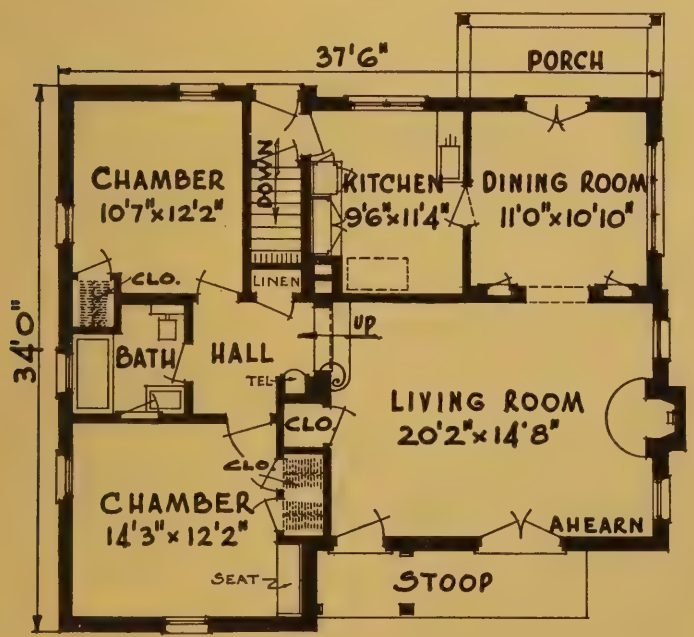
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AHEARN"

37 Ft. 6 in. Wide x 34 Ft. Deep



SIMPLE and delightful, its very simplicity giving it an air of refinement. The architect has given all the space and conveniences of a large home on one floor. There is a plaster arch between the dining and living rooms, a handy telephone booth and space saving closet fixtures, that modern manufacturing has made possible.

SIZES:

Extreme Width	40' 0"
Extreme Depth	39' 6"
Living Room Ceiling	10' 4"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

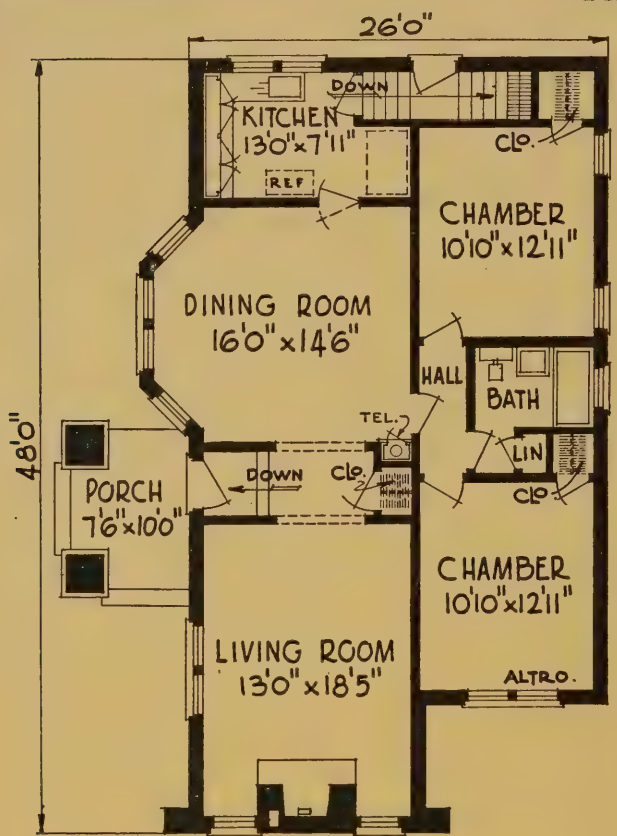
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ALTRO"

26 Ft. Wide x 48 Ft. Deep



WIDE over hanging eaves not only give style to the "Altro," but enhance the beauty of the face brick by casting varied shadows over the surface. So much for the exterior. It is trim and satisfying. As you peruse the floor plan your imagination is captured by the innumerable possibilities of attractive furnishing. It is replete with modern conveniences; such as a built-in telephone cabinet, space-saving closet fixtures and modern kitchen equipment.

THIS DESIGN IS PROVIDED WITH SPACE SAVING CLOSETS IN WHICH ARE INSTALLED ADJUSTABLE CLOTHES HANGERS.

SIZES:

Extreme Width	39' 0"
Extreme Depth	53' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7'0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

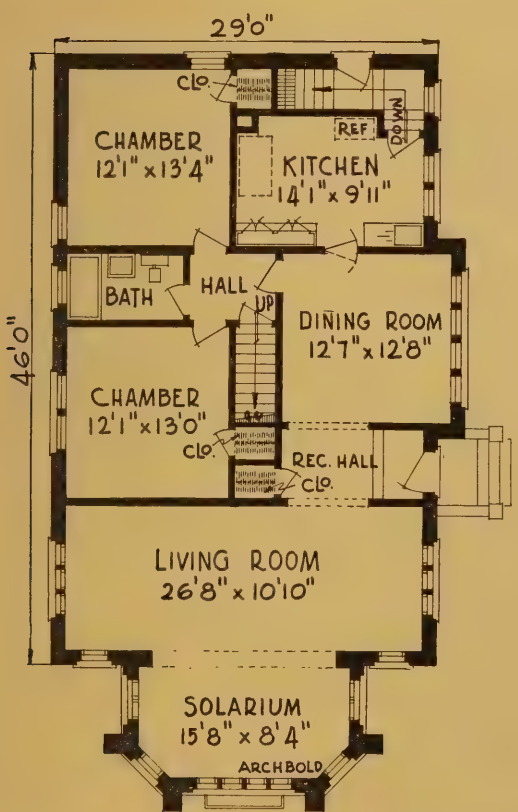
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Solarium

"The ARCHBOLD"

29 Ft. Wide x 46 Ft. Deep



ORNAMENTATION can be either rich or gingerbready depending upon the taste of the user. No one can deny the richness of the "Archbold" nor can anyone accuse it of garishness. Face brick, stone trimming, leaded glass, tile roof, all are used in the correct relation to produce a harmonious whole. The architect has exercised good taste on the inside as well.

THE ILLUSTRATED PICTURES IN THIS BOOK ARE PHOTOGRAPHS OF THE ACTUAL HOME AFTER ERECTION.

SIZES:

Extreme Width	36' 6"
Extreme Depth	59' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

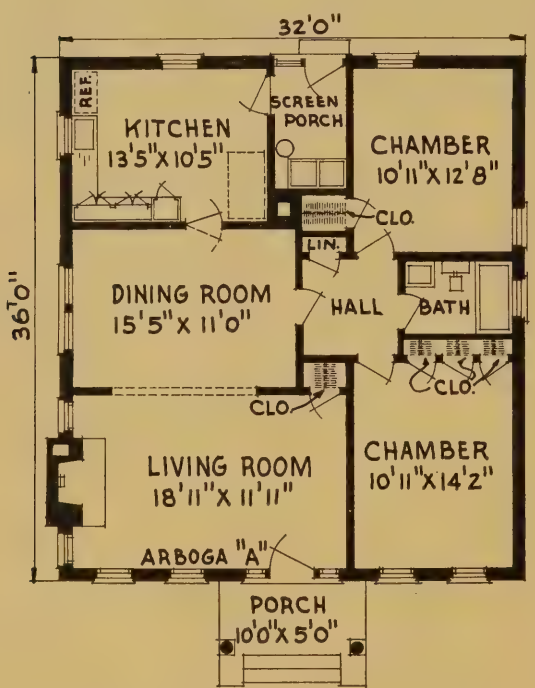


5 Rooms and Bath

"The ARBOGA"

32 Ft. Wide x 36 Ft. Deep

IT HAS an almost classic beauty with its stately entrance and trim straight lines. The rooms and arrangement inside carry out the stateliness of the exterior. This design illustrates the architectural possibilities of face brick.



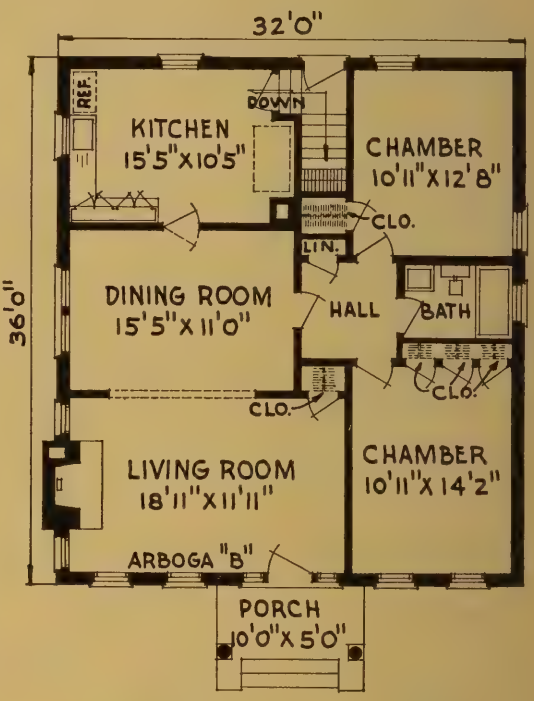
PLAN "A"—WITHOUT BASEMENT

Important

When ordering plans of this design, state whether wanted with or without basement.

SIZES:

Extreme width . 38' 0"
Extreme depth . 46' 0"
Main floor ceiling . . . . . 9' 0"
Basement ceiling —Plan "B" . . . . 7' 0"



PLAN "B"—WITH BASEMENT

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AGNOS"

30 Ft. Wide x 38 Ft. Deep

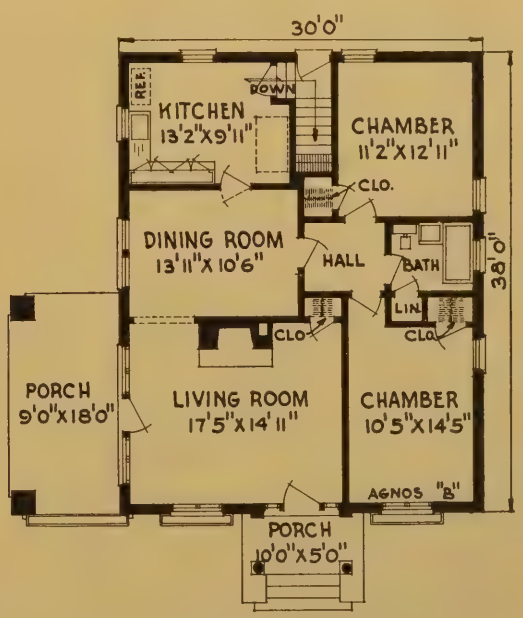
THE pillared entrance against the rich face brick background gives an effect that is colorful and vivid. The rooms are not only conveniently arranged, but are large and restful.



PLAN "A"—WITHOUT BASEMENT

Important

When ordering plans of this design, state whether wanted with or without basement.



PLAN "B"—WITH BASEMENT

SIZES:

Extreme Width	43' 0"
Extreme Depth	47' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling Plan "B"	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

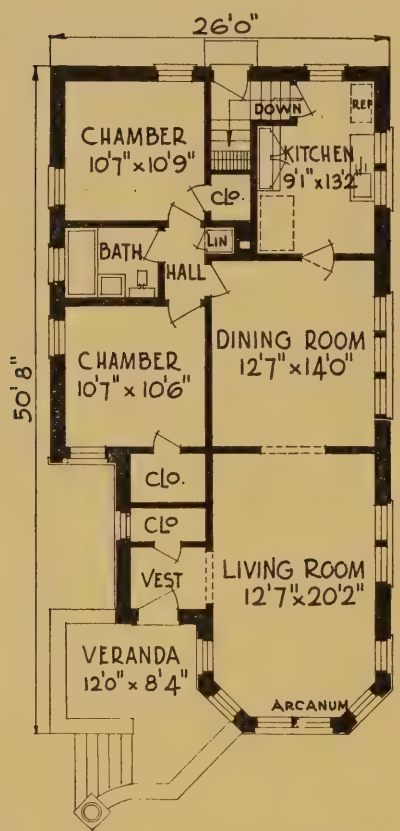
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ARCANUM"

26 Ft. Wide x 50 Ft. 8 In. Deep



THE "Arcanum" presents an unusual and distinctive front. The veranda is not only an attractive approach, but it affords a breeze swept place for warm summer evenings. Then there is a certain impression of stability given by the "Arcanum." Glance for a moment at the floor plan. It tells a story of continuous comfort.

IF INTERESTED IN ANY DESIGN IN THIS BOOK, IT IS ADVISABLE TO SECURE THE BLUE PRINT PLANS SHOWING FULL DETAILS, SIZES AND DIMENSIONS.

SIZES:

Extreme Width	31' 0"
Extreme Depth	60' 8"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

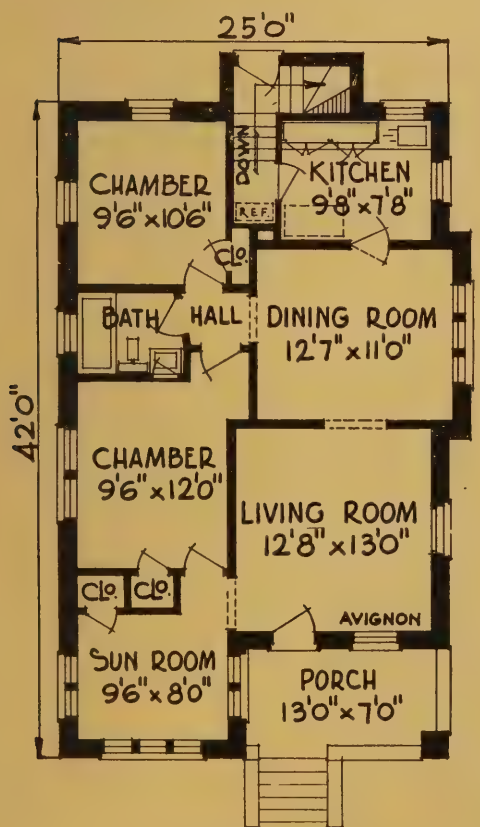
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Sun Room

"The AVIGNON"

25 Ft. Wide x 42 Ft. Deep



A BUNGALOW in face brick—something that is permanent and a joy to possess. From the cool receded porch you enter directly into the large living room. From there you have access to all parts of this convenient home. The sun room is delightful and cozy.

FACE BRICK FOR EXTERIOR WALLS MEANS THAT THE HOME WILL APPEAR SUBSTANTIALLY THE SAME FOR GENERATIONS

SIZES:

Extreme Width	**51' 6"**
Extreme Depth	**30' 6"**
Main Floor Ceiling	**8' 6"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

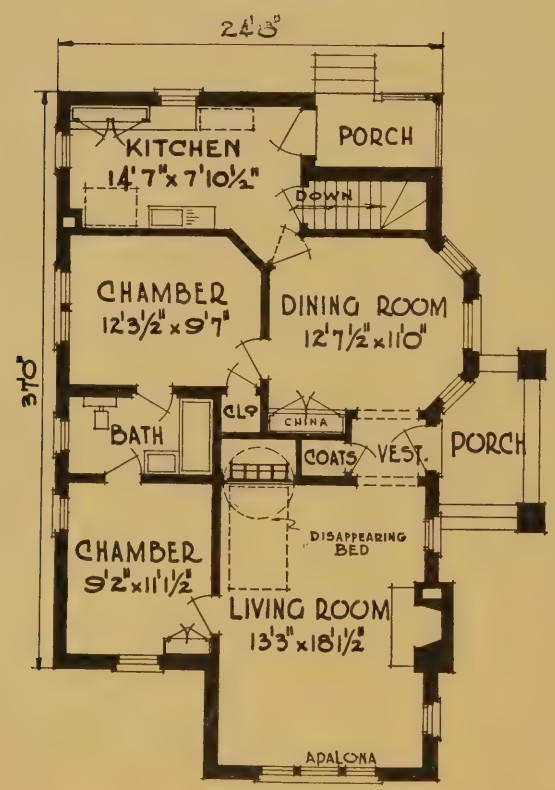
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The APALONA"

24 Ft. 8 In. Wide x 44 Ft. Deep



A POPULAR bungalow in face brick. The brick walls are 9" thick, insuring warmth in winter, and coolness in summer.

The projecting roof gives a certain distinction to the appearance. A disappearing bed in the living room is featured. A built-in china case, and the wide bay, set the dining room off perfectly.

THE HOMES IN THIS BOOK ARE DESIGNED FOR COMFORT AND BEAUTY AND ECONOMY.

SIZES:

Extreme Width	38' 0"
Extreme Depth	50' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

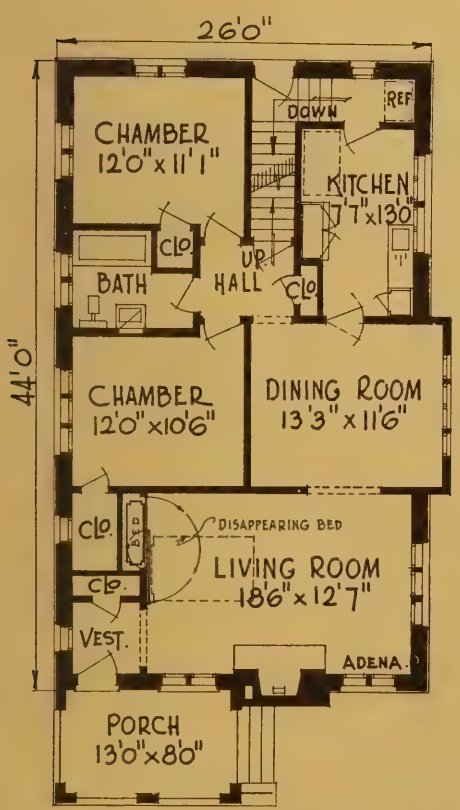
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ADENA"

26 Ft. Wide x 44 Ft. Deep



THE "Adena" presents an effective appearance, the unique porch and chimney base mainly accounting for it. It is a bungalow in face brick that satisfies and endures. Free and airy rooms insure happiness and living comfort on one floor. The disappearing bed in the living room means an extra bedroom at night.

THE PLANS OF THIS HOME GIVE FULL DETAILS, INCLUDING CONSTRUCTION DETAILS AND INSTALLATION OF STEEL SASH.

SIZES:

Extreme Width	30' 6"
Extreme Depth	56' 6"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

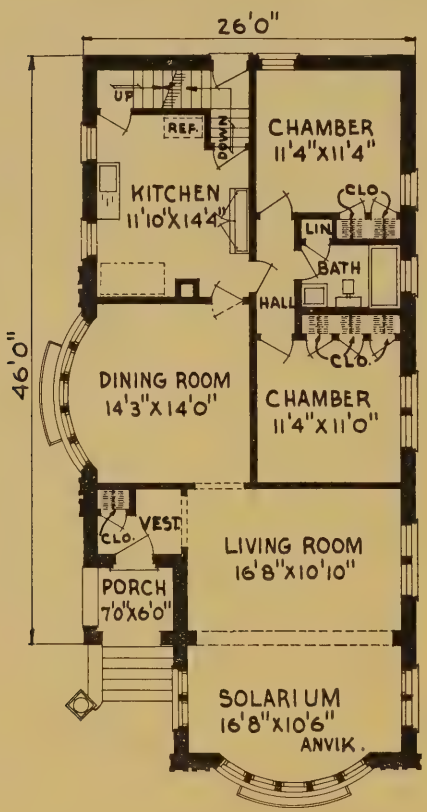
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Solarium

"The ANVIK"

26 Ft. Wide x 55 Ft. 6 In. Deep



A BUNGALOW in face brick that is richly done. It is tastily ornamented making it colorful and interesting. The bright tile roof makes an admirable topping for the lustrous brick. The bays in the dining room and solarium beautify and singularize them. The chambers and bath are well apart from the other rooms giving the necessary privacy.

THIS HOME WAS DESIGNED TO WITHSTAND ELEMENTS AND AGE BY USING FACE BRICK FOR EXTERIOR WALLS AND TILE FOR ROOF.

SIZES:

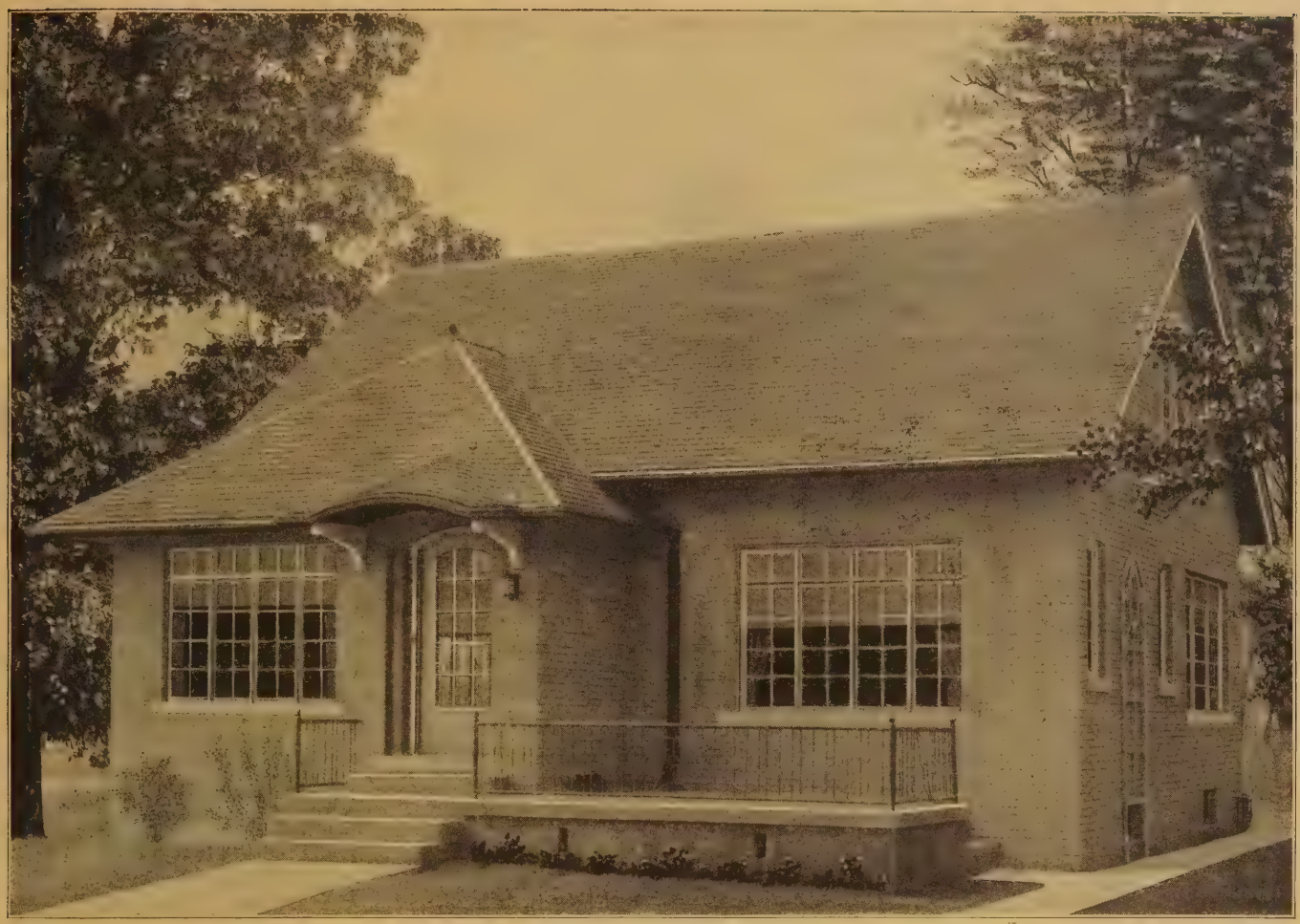
Extreme Width	**33' 0"**
Extreme Depth	**63' 6"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

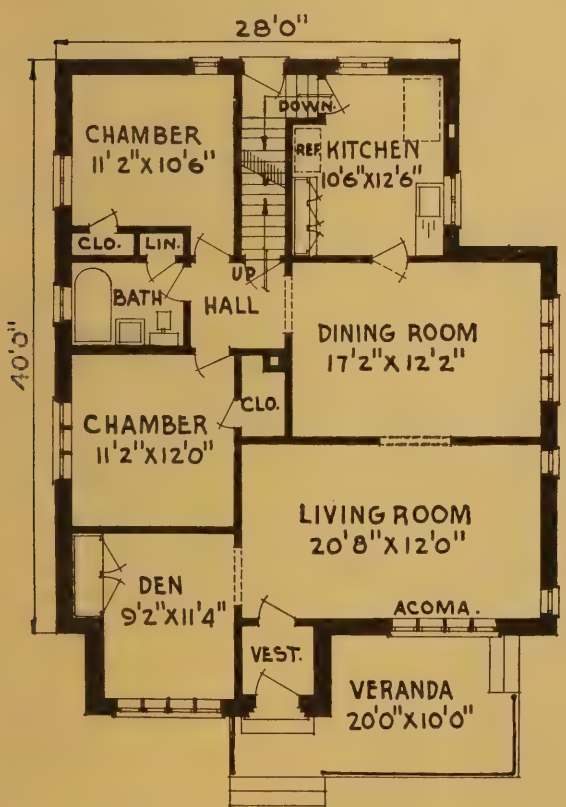
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Den

"The ACOMA"

34 Ft. 8 In. Wide x 45 Ft. 8 In. Deep



THE home-seeker who delights in beautiful things and at the same time wishes to make a good investment should carefully consider the "Acoma." It possesses a beauty that is undeniable and it is built to last. The floor plan provides for every sort of household comfort and there is a large attic for storage.

FACE BRICK, SHINGLED ROOF, STEEL CASEMENT SASH, CONCRETE STEPS AND VERANDA WITH IRON RAILING WERE EFFECTIVELY USED IN THE CONSTRUCTION OF THIS PLEASING HOME.

SIZES:

Extreme Width	38' 0"
Extreme Depth	54' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

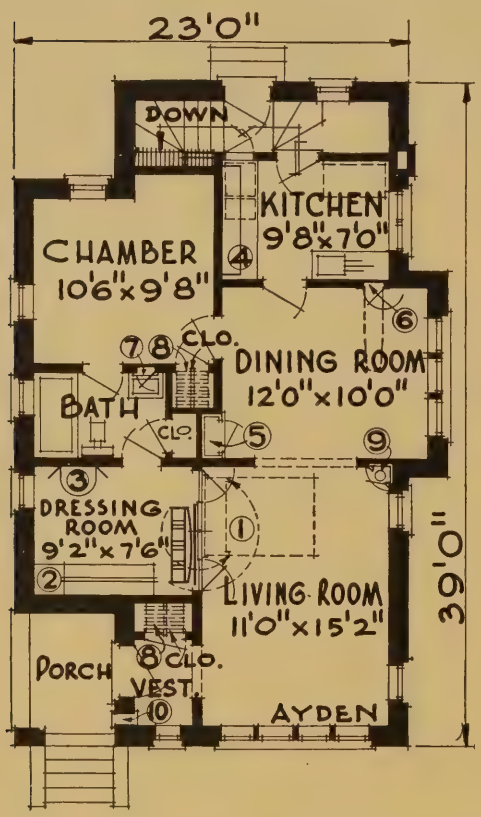
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Dressing Room

"The AYDEN"

25 Ft. 2 In. Wide x 39 Ft. Deep



THIS modern bungalow of face brick exterior offers four rooms with five room efficiency. All the comfort and convenience of an added chamber is embodied in this home by the use of a full size disappearing bed and concealed dressing room off the living room.

Steel casement sash are installed thruout the entire dwelling.

KEY TO MANUFACTURED SPACE SAVING EQUIPMENT USED IN THIS HOME

1—"Disappearing Bed"
2—"Dressing Cabinet"
3—"Dressing Table"
4—"Combination Kitchen Cabinet and Refrigerator"
5—"China Cabinet"
6—"Built-in Ironing Board"
7—"Medicine Cabinet"
8—"Adjustable Clothes Hangers"
9—"Telephone Cabinet"
10—"Built-in Mail Box"

SIZES:

Extreme Width	28' 0"
Extreme Depth	44' 3"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

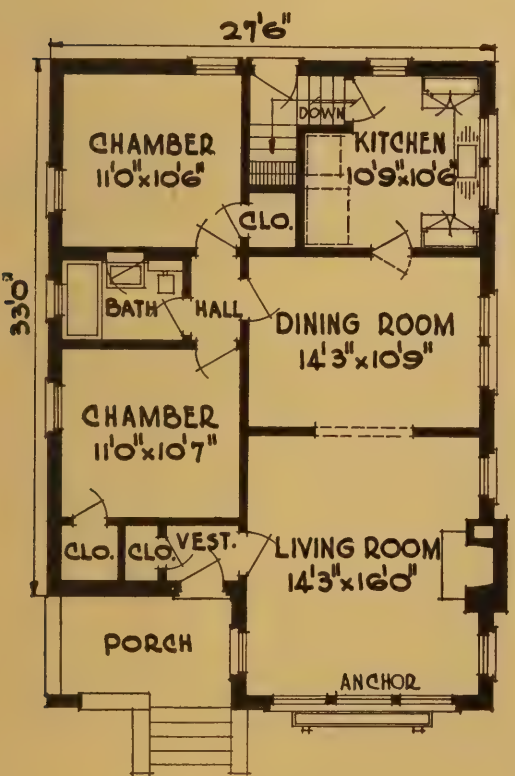
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ANCHOR"

27 Ft. 6 in. Wide x 33 Ft. Deep



A CONVENTIONAL bungalow of the popular type. 9 inch brick walls make for stability and comfort.

Conveniently arranged rooms afford many possibilities for attractive decoration. The kitchen arrangement is particularly handy. The suitable home for a small family.

PLANS CORRECTLY DRAWN PREVENT COSTLY ERRORS AND DELAYS DURING CONSTRUCTION

SIZES:

Extreme Width	33′ 0″
Extreme Depth	46′ 8″
Main Floor Ceiling	8′ 6″
Basement Ceiling	7′ 0″

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

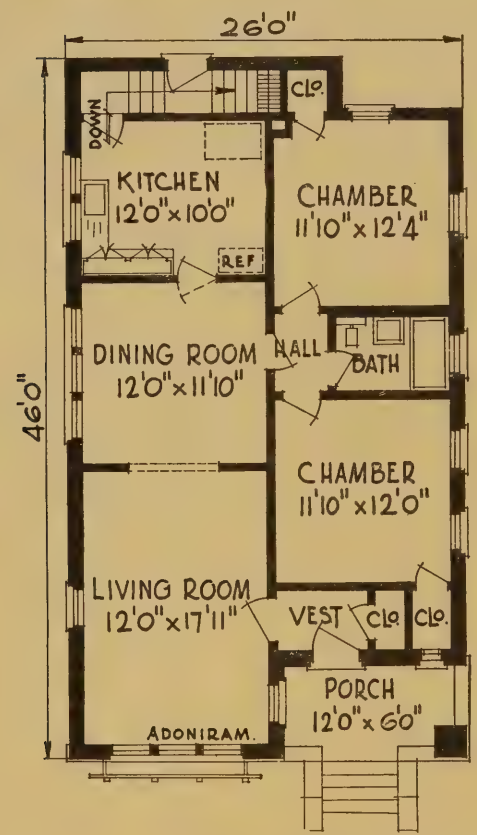
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ADONIRAM"

26 Ft. Wide x 46 Ft. Deep



THIS particular type of bungalow is shown to good advantage in face brick and stucco. A study of the floor plan will show five rooms conveniently arranged, with bathroom accessible from both chambers. A practical investment and a satisfying one.

ALL PLANS ARE CLEARLY DRAWN AND SUPPLEMENTED WITH VARIOUS DETAILED DRAWINGS TO ENABLE THE BUILDER TO FULLY UNDERSTAND ALL WORK.

SIZES:

Extreme Width	**31' 0"**
Extreme Depth	**53' 0"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

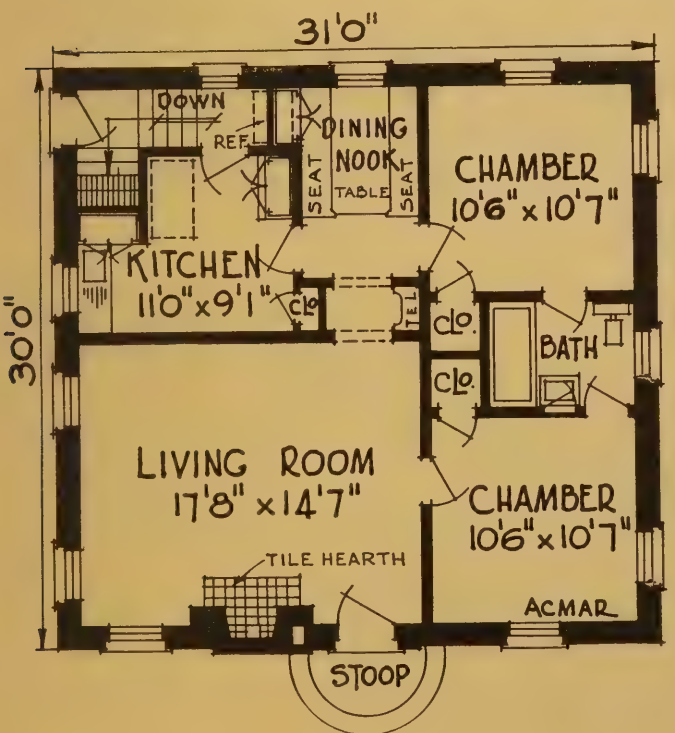
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



4 Rooms, Bath and Dining Nook

"The ACMAR"

31 Ft. Wide x 30 Ft. Deep



A FETCHING bungalow in brick. The arched entrance is set off by the large square chimney. Such conveniences as a built-in telephone shelf, dining nook, bath opening into each chamber, and a tiled-hearth fire-place are found. One should study the excellence of the floor plan.

SIZES:

Extreme Width	32' 0"
Extreme Depth	36' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for Above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

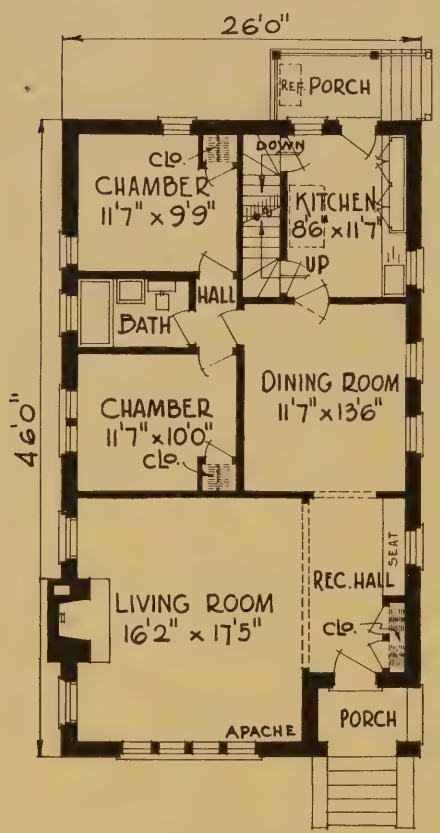
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The APACHE"

26 Ft. Wide x 46 Ft. Deep



EXPERIENCE has taught that this type of bungalow is eminently practical and inexpensive to build. In appearance, however, the "Apache" differs from other bungalows of this type mainly because of the attractive mixing of stucco with face brick. The arched effect of the porch is carried into the reception hall openings into dining and living rooms. Comfortable and handy to live in.

THE WORKING PLANS GIVE FULL DATA AND DETAILS IN A CLEAR AND COMPREHENSIVE MANNER.

SIZES:

Extreme Width	31' 0"
Extreme Depth	57' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

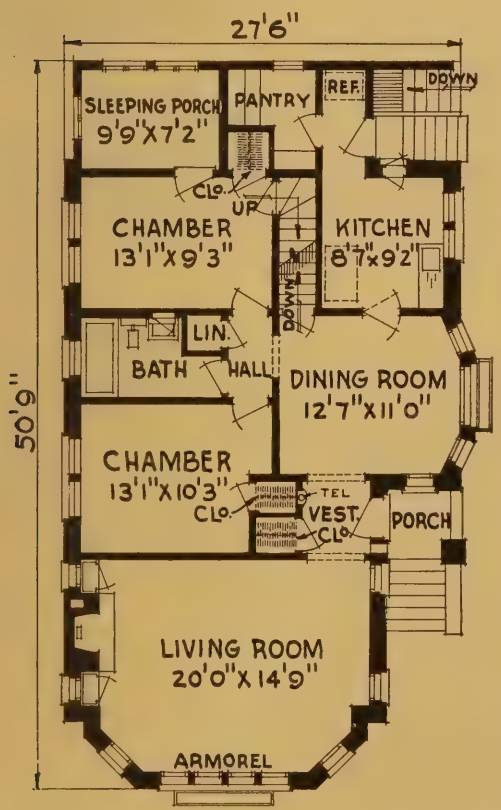
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Sleeping Porch

"The ARMOREL"

27 Ft. 6 In. Wide x 50 Ft. 9 In. Deep



OBVIOUSLY the "Armorel" is in a popular style, but it is none the less attractive because of it. Certain details, such as the stone trimming and big bays distinguish it from others of this type. It is inside that you get the full effect of the bays and appreciate how they add to the rooms. There are far too many handy conveniences to enumerate. Study the floor plan carefully and see them all.

FACE BRICK, CUT STONE TRIMMINGS. ASPHALT ROOF SHINGLES, STUCCO AND CONCRETE ARE ALL INCLUDED IN THE CONSTRUCTION OF THIS HOME.

SIZES:

Extreme Width	**31' 6"**
Extreme Depth	**55' 0"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

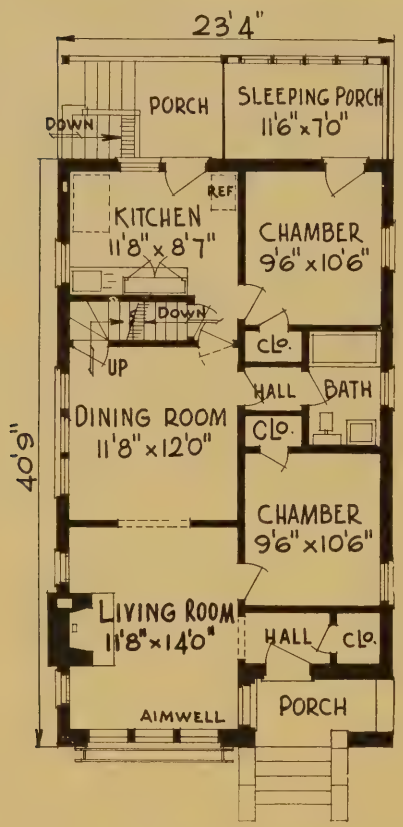
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms, Bath and Sleeping Porch

"The AIMWELL"

23 Ft. 4 In. Wide x 40 Ft. 9 In. Deep



A BUNGALOW that can be readily sold because the building costs are moderate, the construction is substantial and the exterior is pleasing. The inside arrangement is carefully planned for efficiency and labor saving. A convenient sleeping porch is at rear.

FACE BRICK AND COMMON BRICK ARE COMBINED TO PRODUCE THIS TASTY HOME. PLANS WILL GIVE FULL DETAILS AND PARTICULARS.

SIZES:

Extreme Width	**27' 6"**
Extreme Depth	**55' 0"**
Main Floor Ceiling	**9' 0"**
Basement Ceiling	**7' 0"**

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

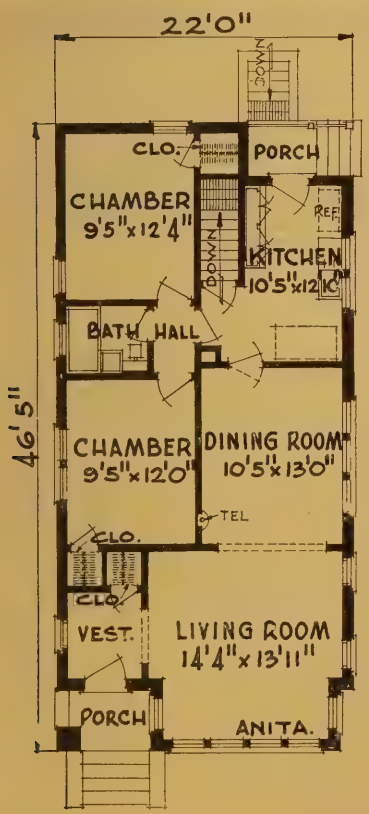
HOME BUILDERS CATALOG CO.
Chicago,—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The ANITA"

22 Ft. Wide x 46 Ft. 5 In. Deep



SIMPLE in line, possessing a warm and colorful surface the "Anita" presents a homelike appearance. It is of a popular style and justifiably so for it is a style that has been tried and proven. Inside the same hominess prevails. Spacious, well-arranged rooms insure living comfort. A sound buy to be sure.

FACE BRICK AND ASPHALT SHINGLES IS A DURABLE COMBINATION FOR SMALL HOUSE CONSTRUCTION. PLANS GIVE ALL DETAILS.

SIZES:

Extreme Width	27' 0"
Extreme Depth	56' 0"
Main Floor Ceiling	9' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

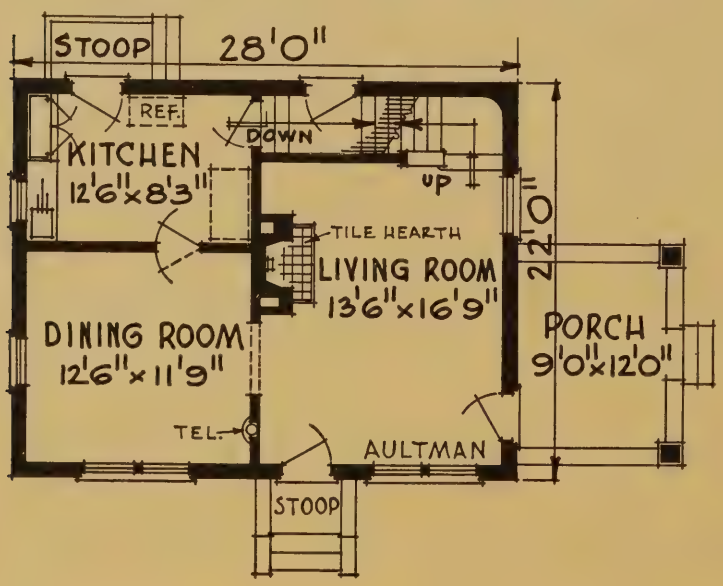


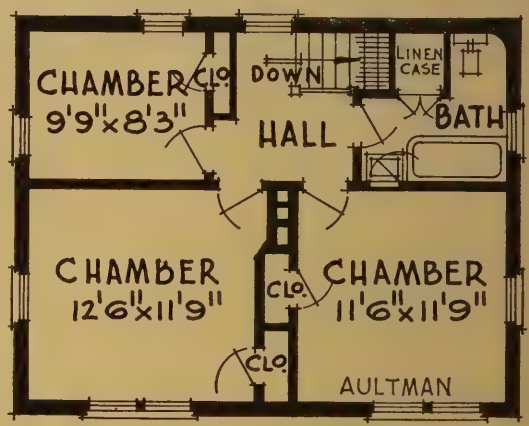
6 Rooms and Bath

"The AULTMAN"

28 Ft. Wide x 22 Ft. Deep

THE most critical will have difficulty in finding anything wrong with the "Aultman." Perfectly proportioned and artistically done it represents the better homes of today. The same excellence is found in the arrangement of rooms, each being well designed and quite accessible.





HOLLOW BRICK WITH FACE EXPOSURE OF 12x5 INCHES ARE USED TO CONSTRUCT THIS SUBSTANTIAL HOME OF DURABILITY AND WARMTH.

SIZES:

Extreme Width	41' 0"
Extreme Depth	32' 0"
First Floor Ceiling	8' 6"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**
$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

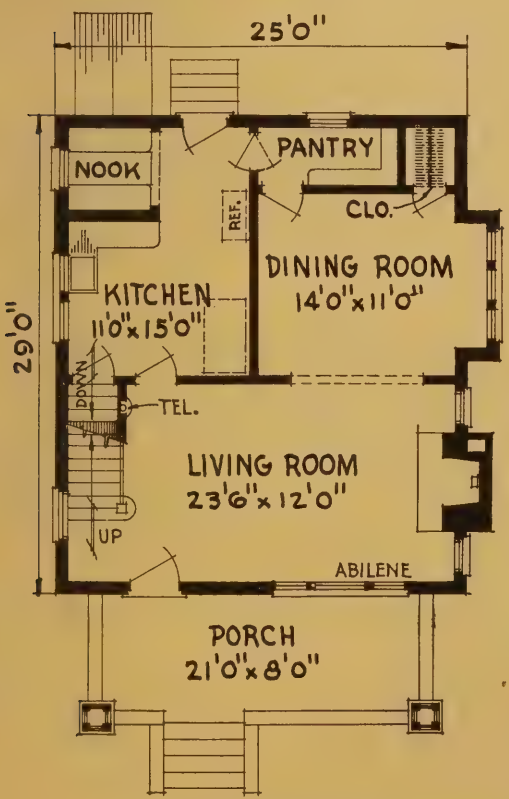
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms, Bath and Dining Nook

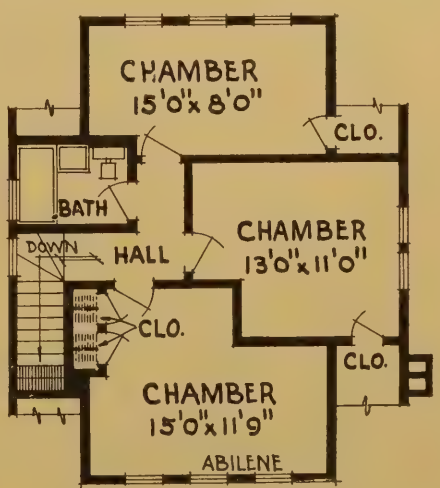
"The ABILENE"

25 Ft. Wide x 29 Ft. Deep



OF deserving popularity the "Abilene" is a pleasure to see. The architect has exercised taste and restraint in the execution of this home. The interior is all to be desired, comfortable and convenient.

A PLEASING EXAMPLE OF HOLLOW BRICK WALLS COMBINED WITH STAINED SHINGLES. THE FACE EXPOSURE OF THE BRICK IS 12x5 INCHES.



SIZES:

Extreme Width	30' 0"
Extreme Depth	47' 0"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

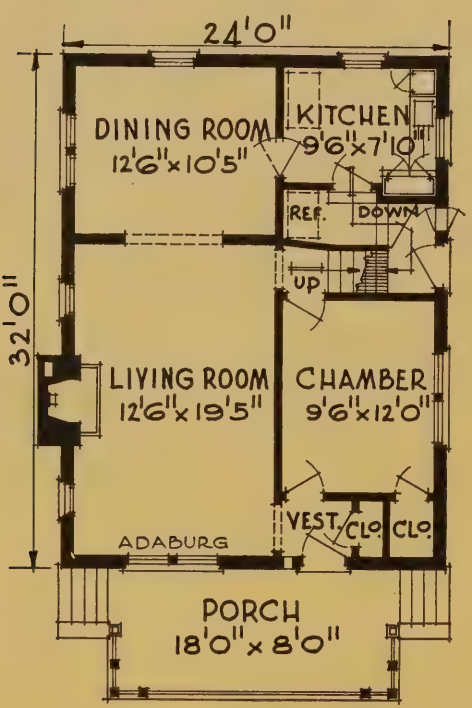
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



6 Rooms and Bath

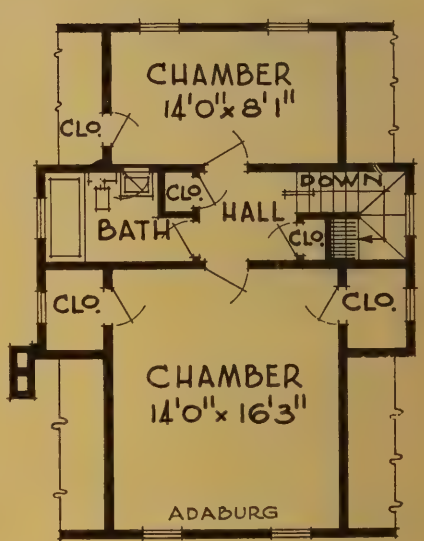
"The ADABURG"

24 Ft. Wide x 32 Ft. Deep



A FAIR example of the better home movement. Everything is neat, modern and tasty. Concrete blocks, hollow brick and shingles combine to give a charming effect. A delivery receptacle is featured.

HOLLOW BRICK OF FACE SIZE 12x5 INCHES ARE USED FOR FIRST STORY WALLS.



SIZES:

Extreme Width	27' 0"
Extreme Depth	42' 6"
First Floor Ceiling	9' 0"
Second Floor Ceiling	8' 0"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

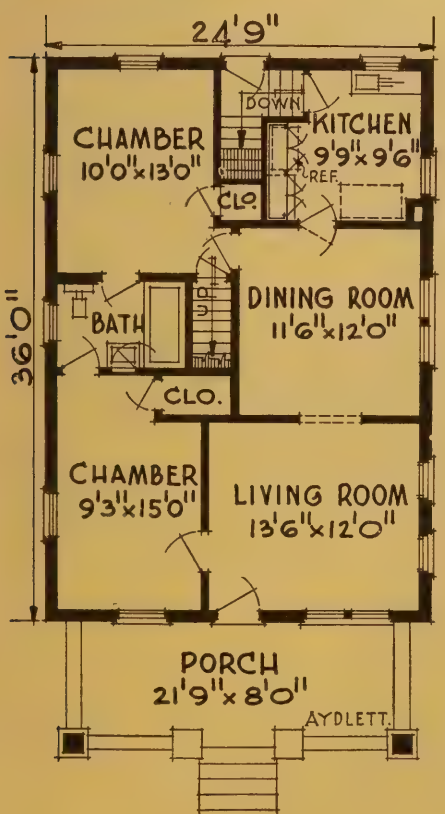
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AYDLETT"

24 Ft. 9 In. Wide x 36 Ft. Deep



IN the popular style, the "Aydlett" is a constant source of satisfaction to the owner. Study for a moment the clear-cut, thoughtful way in which the rooms are disposed. For instance, the bath is placed between the two chambers. It is a very inexpensive home to build and to keep up.

THIS HOME IS BUILT OF HOLLOW BRICK OF FACE SIZE 12x5 INCHES. THE PLASTER ON INSIDE IS DIRECTLY APPLIED TO THE BRICK. SEE PLANS.

SIZES:

Extreme Width	29' 6"
Extreme Depth	50' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets Blue-Print Working Plans for above Design
One (1) Classified Guide (16 Pages) for listing all Material Items
One (1) Set of Specifications and Two (2) Blank Contract Forms

$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

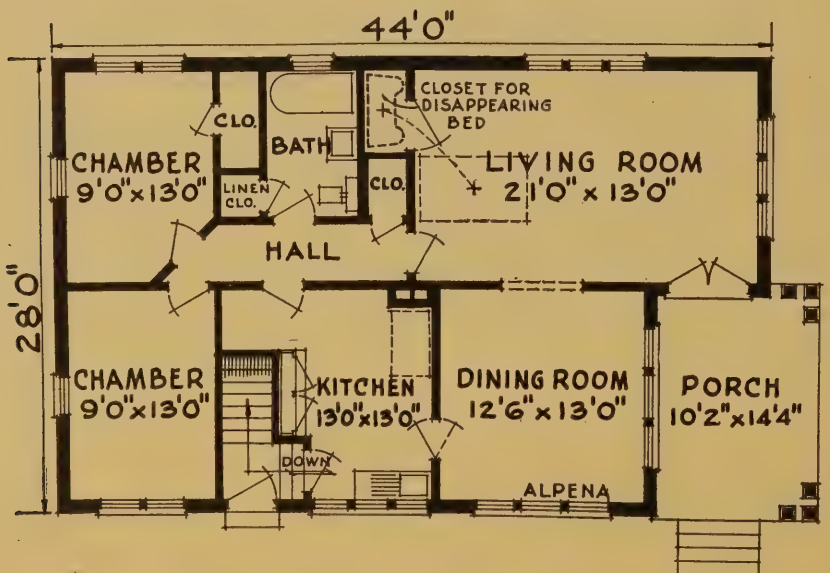


5 Rooms and Bath

"The ALPENA"

44 Ft. Wide x 28 Ft. Deep

YOU are at once aware of a certain spaciousness when viewing this bungalow. Nor does the outside belie the interior for every room is airy and commodious. The placing of the chambers at one end and segregating them from the rest of the home is an excellent idea. A disappearing bed is shown in the living room plan.



CONSTRUCTED OF HOLLOW BRICK WITH FACE EXPOSURE OF 12x5 INCHES. THE WORKING PLANS GIVE DETAILS AND COMPLETE DATA.

SIZES:

Extreme Width	51' 0"
Extreme Depth	34' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**
$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

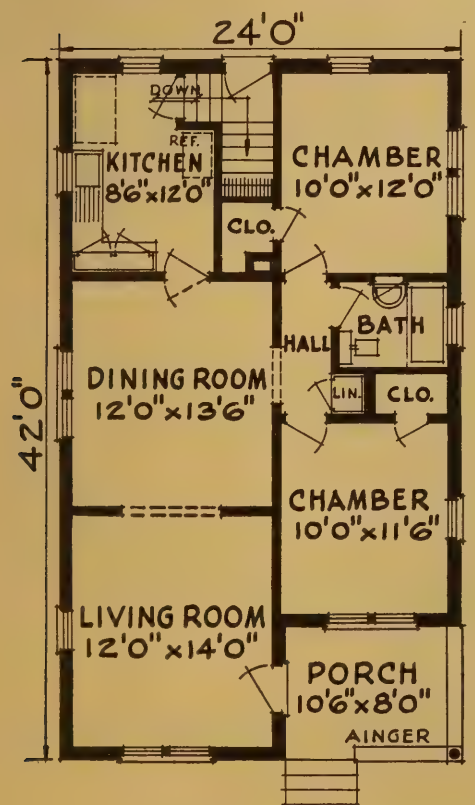
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



5 Rooms and Bath

"The AINGER"

24 Ft. Wide x 42 Ft. Deep



NEAT and trim of design the "Ainger" impresses with its clear-cutness. The same practicality exists on the inside in the tidy arrangement of the rooms. Such a bungalow inspires orderly living. That is probably why you see so many of them all over the country.

A PRACTICAL MODERATE COST BUNGALOW OF SOLID, WARM CONSTRUCTION. BUILT OF HOLLOW BRICK WITH FACE EXPOSURE OF 12x5 INCHES.

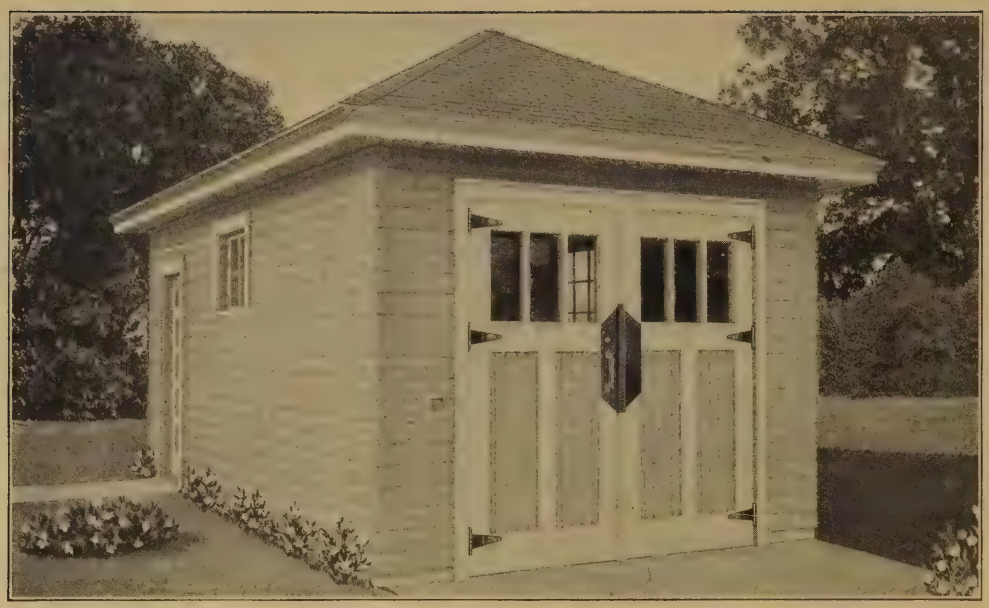
SIZES:

Extreme Width	28' 0"
Extreme Depth	47' 0"
Main Floor Ceiling	8' 6"
Basement Ceiling	7' 0"

Two (2) Complete Sets **Blue-Print Working Plans** for above Design
One (1) **Classified Guide** (16 Pages) for listing all Material Items
One (1) **Set of Specifications** and Two (2) **Blank Contract Forms**
$20.00

Secure above plans, etc. from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



"The DODGE" Garage

—o—

THIS trim design will accommodate one car and leave room to work around it. It will tone up and add value to the property.

—o—

SIZES:

Plan No. 1.....12 Ft. x 18 Ft.
Plan No. 2.....12 Ft. x 20 Ft.

"The BUICK" Garage

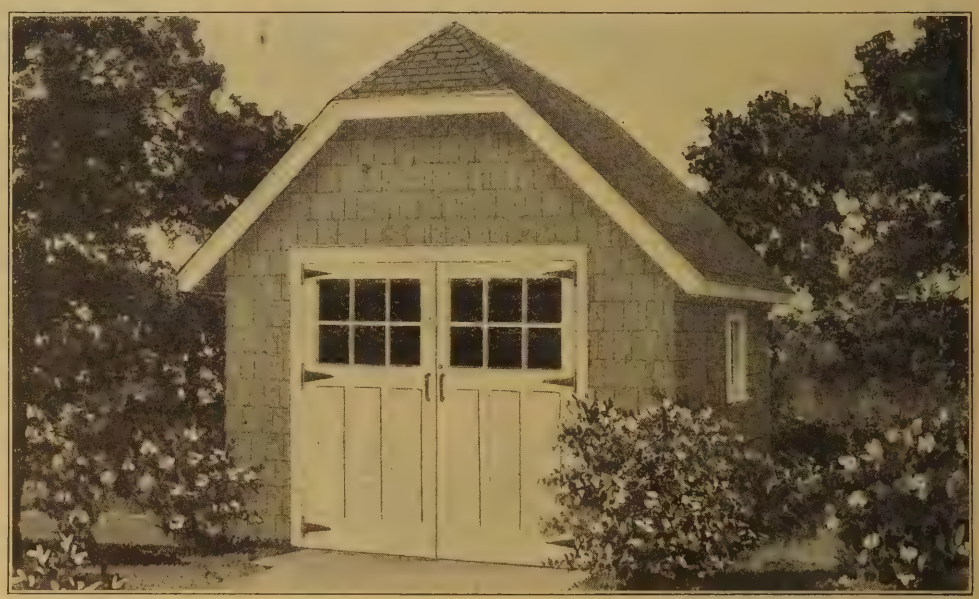
—o—

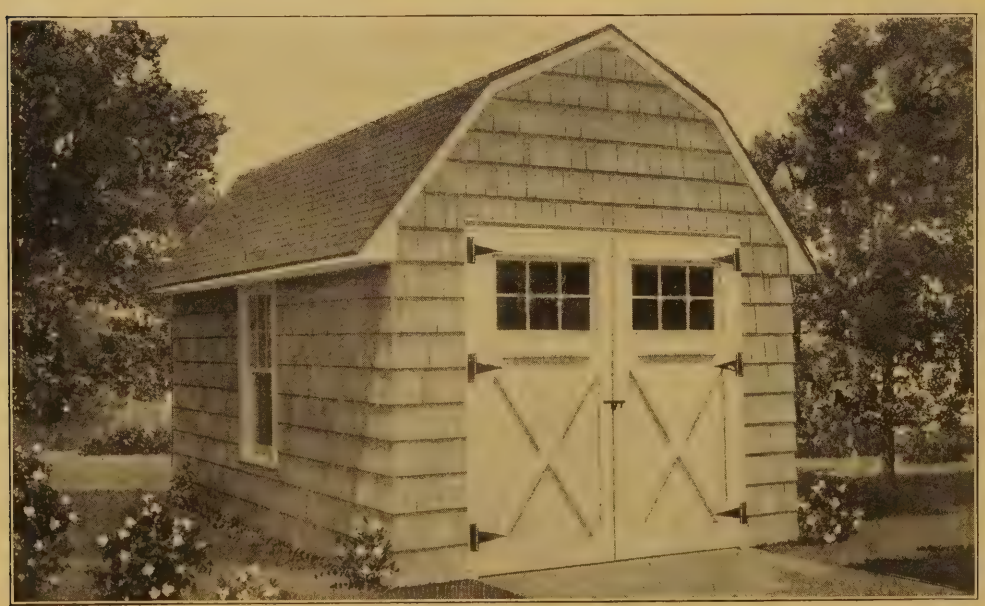
THIS handsome one-car design, in addition to giving the car the shelter it needs, will no doubt match many homes of similar type.

—o—

SIZES:

Plan No. 1.....12 Ft. x 18 Ft.
Plan No. 2.....12 Ft. x 20 Ft.





"The REO" Garage

—o—

THE value and property is greatly enhanced by the addition of a neat garage to match the architectural style of the home.

—o—

SIZES:

Plan No. 1.....12 Ft. x 18 Ft.
Plan No. 2.....14 Ft. x 20 Ft.

Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... **$5.00**

Secure above plans, etc., from your local Lumber or Building Material Dealer.

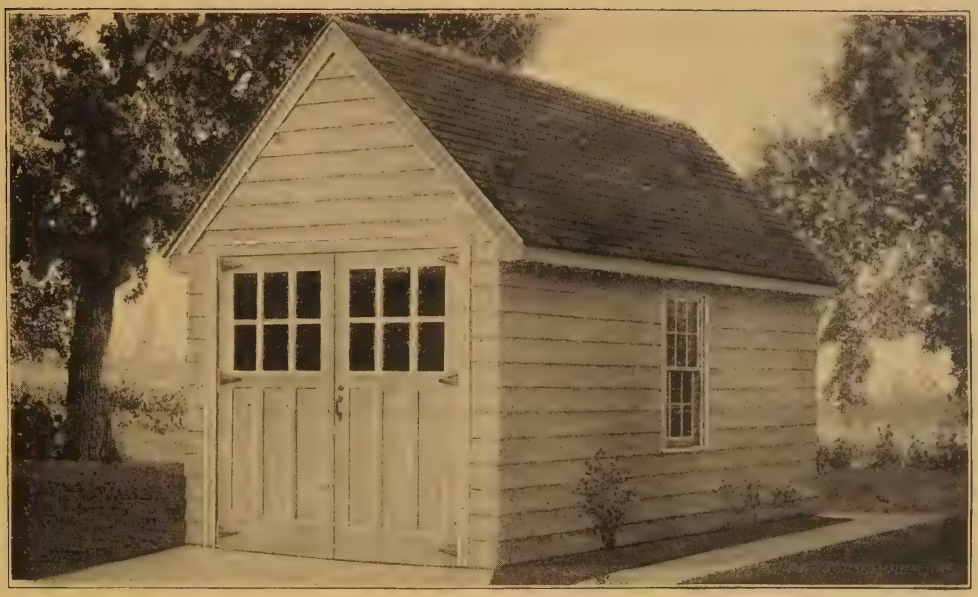
HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

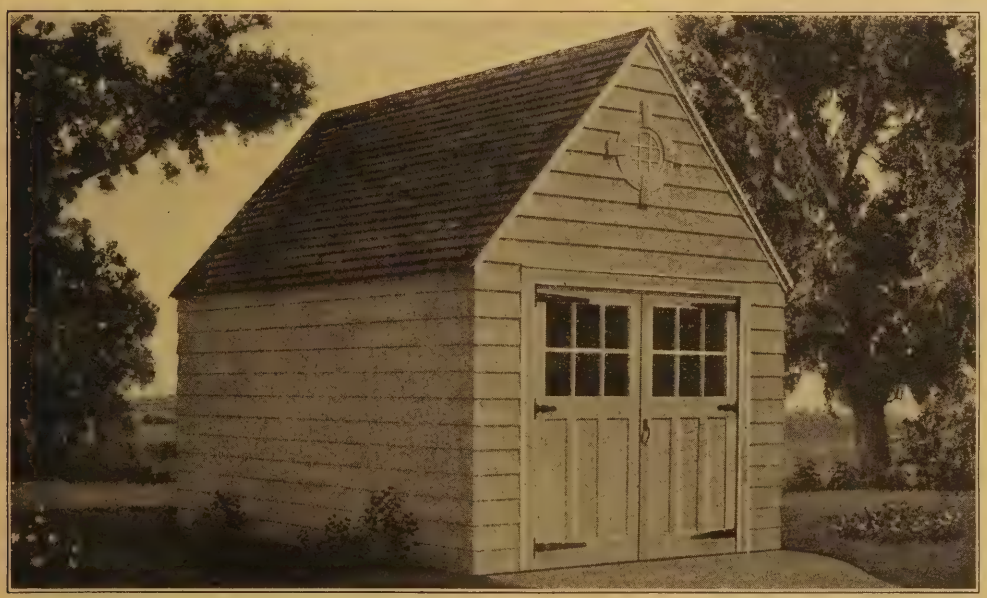
"The FORD" Garage

EVERY dollar that goes into this garage serves a purpose, yet it is attractive in appearance, well constructed and serviceable.

SIZES:

Plan No. 1.....10 Ft. x 16 Ft.
Plan No. 2.....12 Ft. x 18 Ft.





"The CHEVROLET" Garage

A HANDSOME one-car garage of extremely economical construction yet large enough to provide work space around the car.

SIZES:

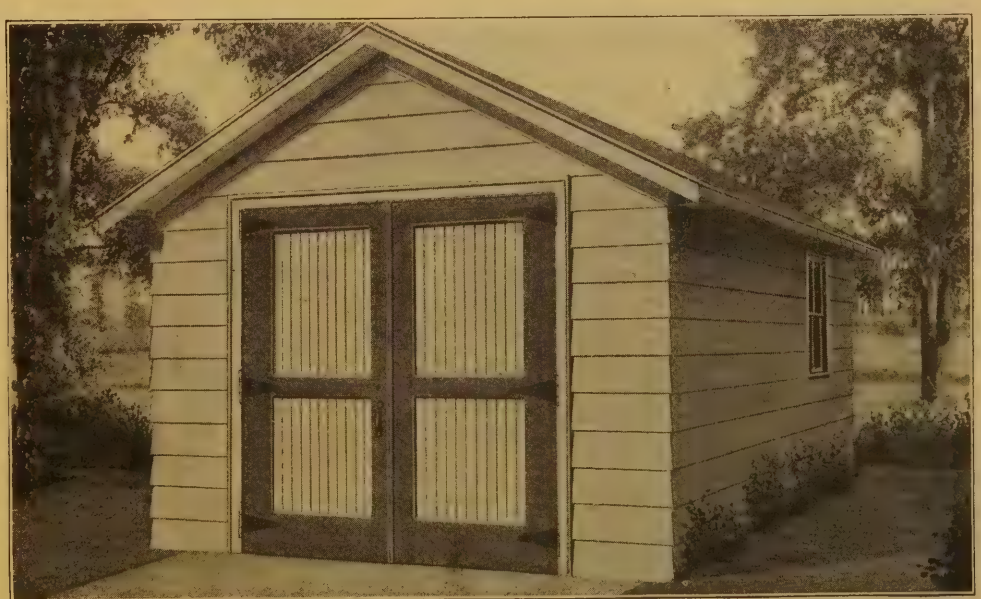
Plan No. 1.....12 Ft. x 16 Ft.
Plan No. 2.....12 Ft. x 18 Ft.

"The GRAY" Garage

"THE GRAY" shows how every dollar is spent to the best advantage but you will be pleased and surprised when you learn the actual cost. The plan gives clear details of construction.

SIZES:

Plan No. 1.....12 Ft. x 18 Ft.
Plan No. 2.....14 Ft. x 20 Ft.



Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



"The ESSEX" Garage

—o—

THE "Essex" provides a comfortable shelter for the car, besides, this design is very attractive and will add value to the property.

—o—

SIZES:

Plan No. 1.....12 Ft. x 18 Ft.
Plan No. 2.....14 Ft. x 20 Ft.

"The JEWETT" Garage

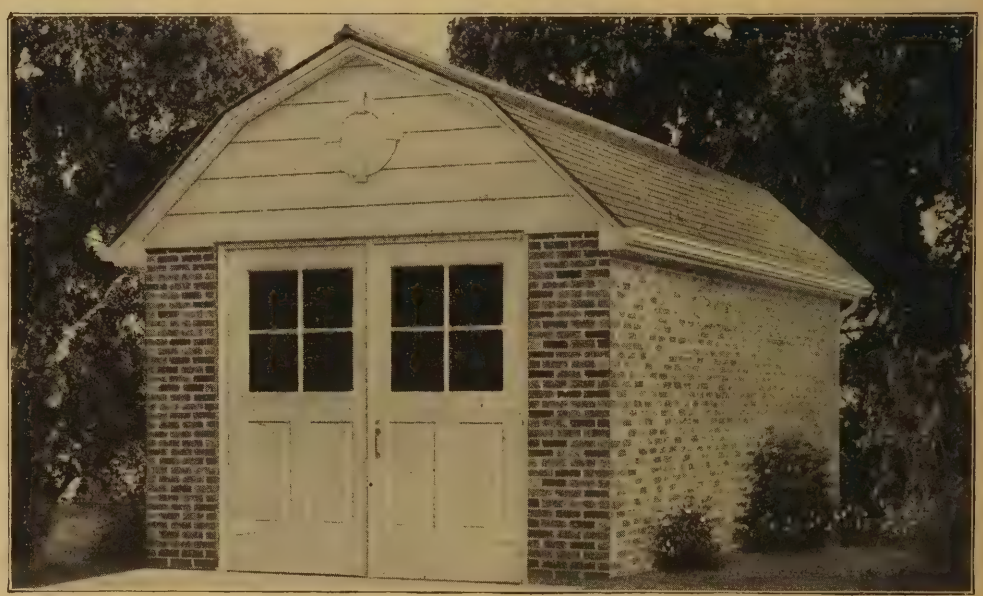
—o—

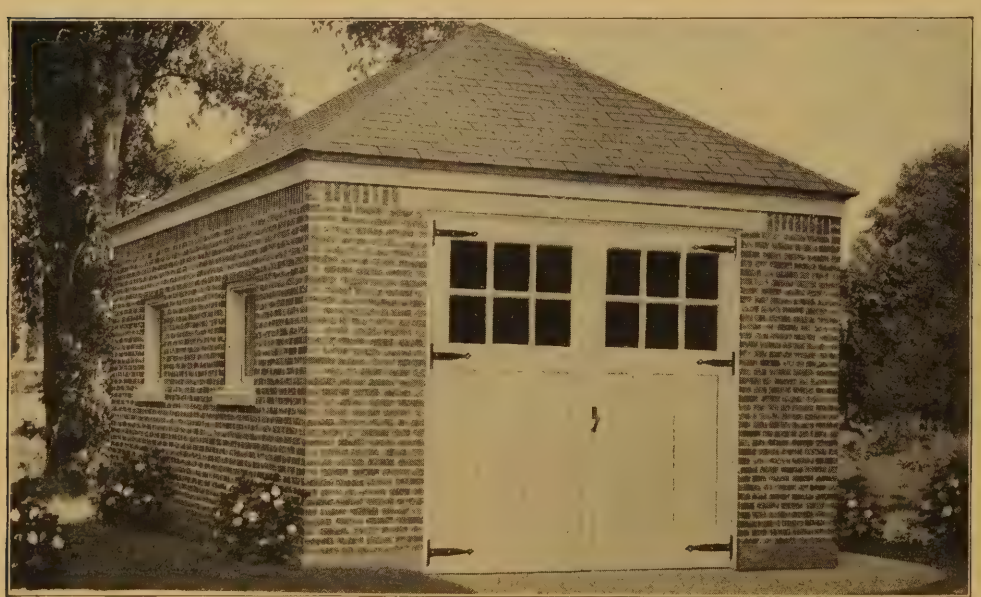
A BRICK garage designed to match a brick home of similar type. Substantial, attractive and providing plenty of work space around the car.

—o—

SIZES:

Plan No. 1—
12 Ft. 6 In. x 19 Ft. 6 In.
Plan No. 2..14 Ft. x 21 Ft. 6 In.





"The NASH" Garage

—o—

A NEAT, well constructed brick garage of this type is not only the practical shelter for the car but also adds to the value of the property.

—o—

SIZES:

Plan No. 1.....14 Ft. x 20 Ft.
Plan No. 2.....14 Ft. x 22 Ft.

Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

"The CASE" Garage

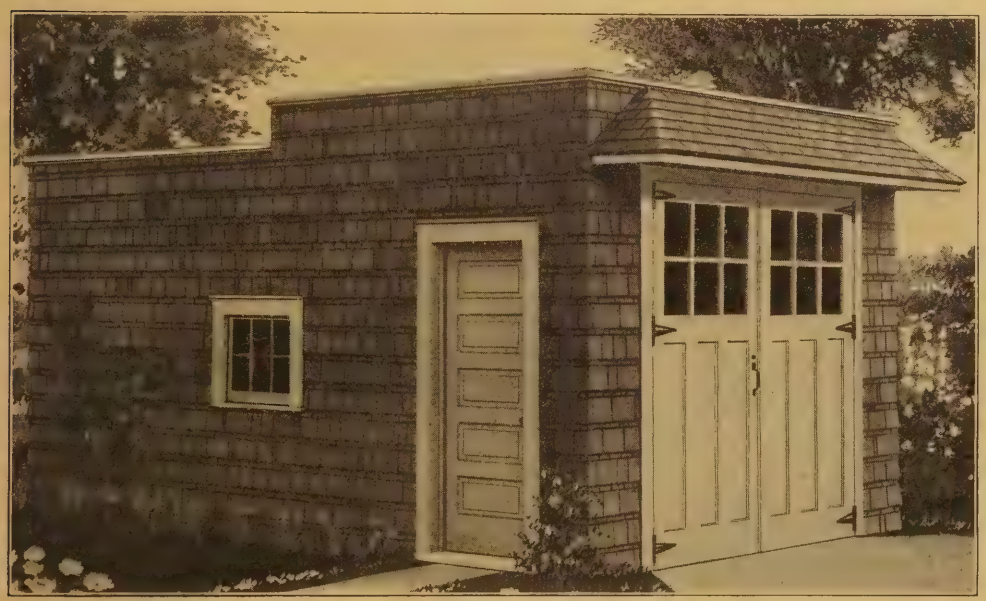
—o—

THIS neat one-car garage will tone up and add value to any property. It will accommodate even the largest cars and leave plenty of work space.

—o—

SIZES:
Plan No. 1.....12 Ft. x 20 Ft.
Plan No. 2.....14 Ft. x 22 Ft.





"The CLEVELAND" Garage

—o—

THE small investment required to build this one-car design will soon be returned in service, protection and satisfaction.

—o—

SIZES:
Plan No. 1.....12 Ft. x 18 Ft.
Plan No. 2.....14 Ft. x 20 Ft.

"THE STUTZ" Garage

—o—

ALTHOUGH the car may be the best in the world it cannot give its greatest service without receiving good care and protection in return. This garage meets the needs of the car.

—o—

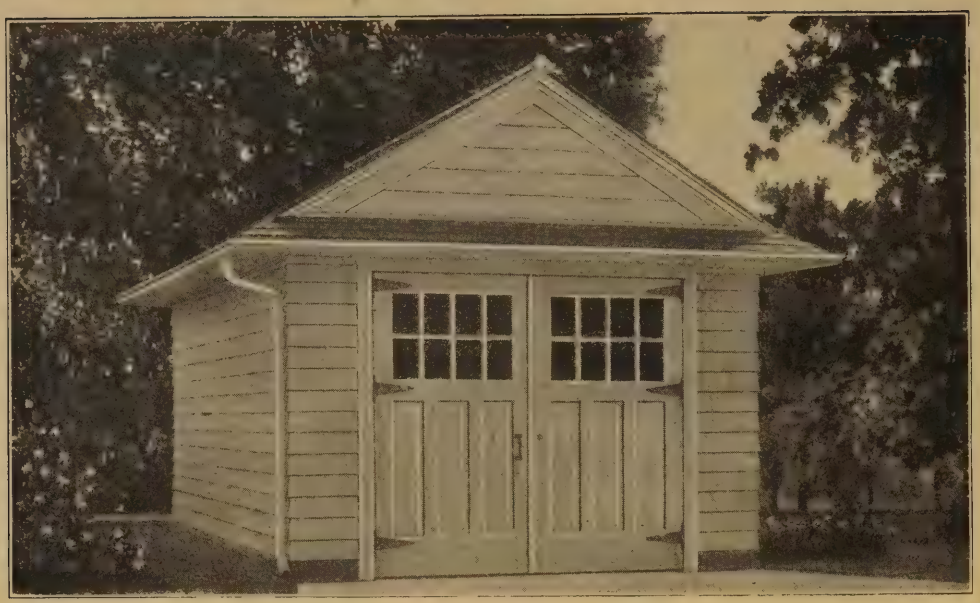
SIZES:
Plan No. 1.....14 Ft. x 20 Ft.
Plan No. 2.....15 Ft. x 22 Ft.



Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



"The OVERLAND" Garage

THE broken roof lines of the "Overland" give it an individuality at once apparent. It is of splendid type, well constructed and appropriate to any location.

SIZES:

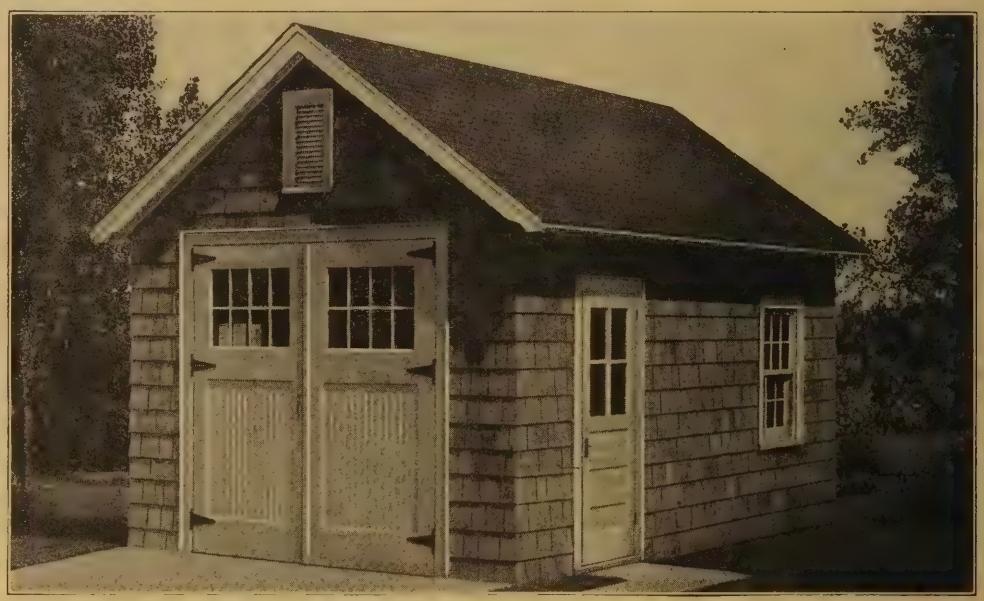
Plan No. 1.....12 Ft. x 18 Ft.
Plan No. 2.....14 Ft. x 20 Ft.

"The STAR" Garage

A SHINGLE covered garage that will match many homes. Compact, but convenient in every respect. Plenty of light and work room.

SIZES:

Plan No. 1.....12 Ft. x 16 Ft.
Plan No. 2.....14 Ft. x 18 Ft.





"The MAXWELL" Garage

DISTINCTIVE and attractive, the "Maxwell" provides extra space for mechanical equipment and work shop. This garage deserves practical consideration by those who delight in automobile mechanics.

SIZES:

Plan No. 1.....16 Ft. x 18 Ft.
Plan No. 2.....18 Ft. x 20 Ft.

Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

"The CHANDLER" Garage

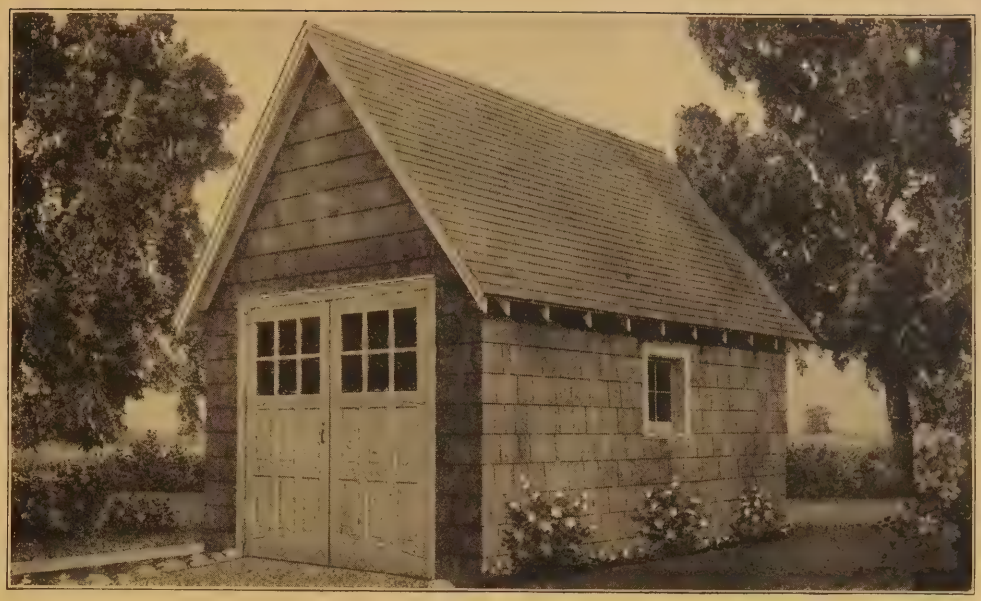
—o—

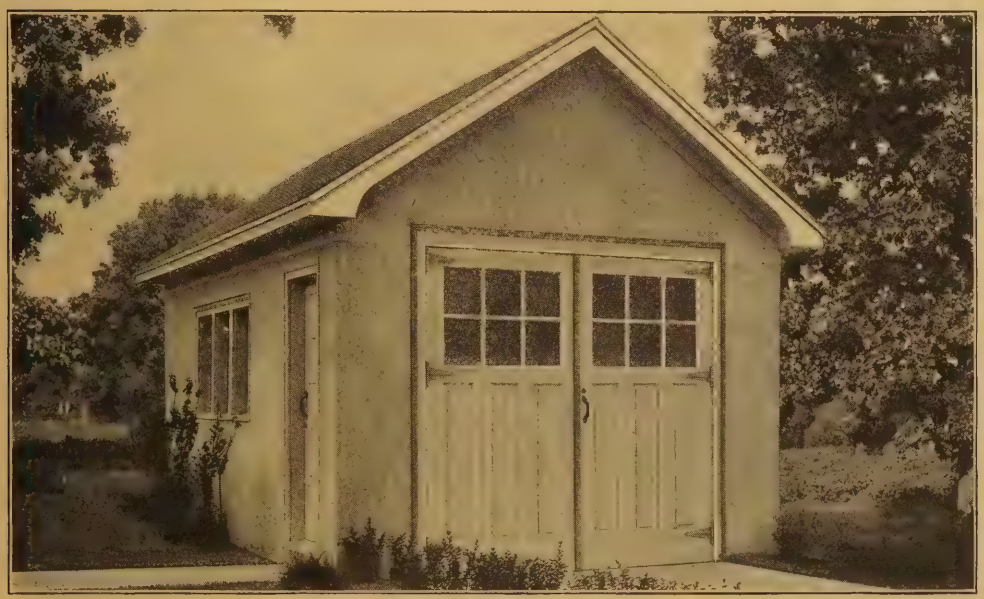
IT is useless to spend more for a garage than the property or location calls for. Substantial construction and good hardware are essential for the protection of the car.

—o—

SIZES:

Plan No. 1.....12 Ft. x 18 Ft.
Plan No. 2.....14 Ft. x 20 Ft.





"The EARL" Garage

—o—

THE experienced driver appreciates the convenience of having his car near at hand and well protected at all times. Treat your car well and it will give you good service.

—o—

SIZES:

Plan No. 1.....12 Ft. x 18 Ft.
Plan No. 2.....14 Ft. x 20 Ft.

"The WINTON" Garage

—o—

A TWO-CAR garage can be built for considerably less than twice the cost of a one-car garage, and it is often real economy to do so. The extra space can be rented or can be used for storage, etc.

—o—

SIZES:

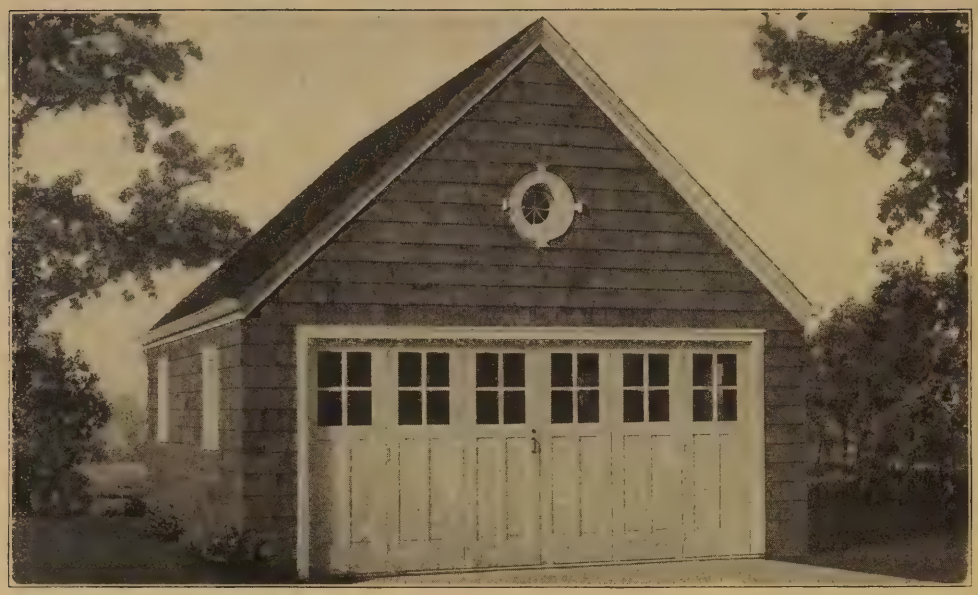
Plan No. 1.....20 Ft. x 20 Ft.
Plan No. 2.....22 Ft. x 22 Ft.



Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



"The WESTCOTT" Garage

ROOM for 2 cars. A 6-door garage with doors to swing in and slide to sides on an overhead track. An appropriate garage for any seclusive location.

SIZES:

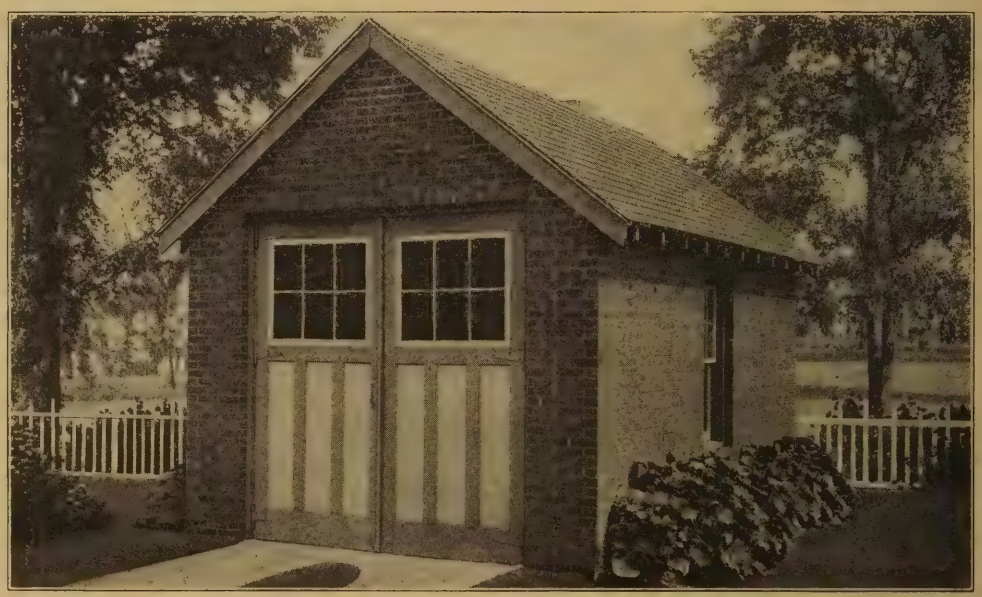
Plan No. 1.....20 Ft. x 22 Ft.
Plan No. 2.....22 Ft. x 24 Ft.

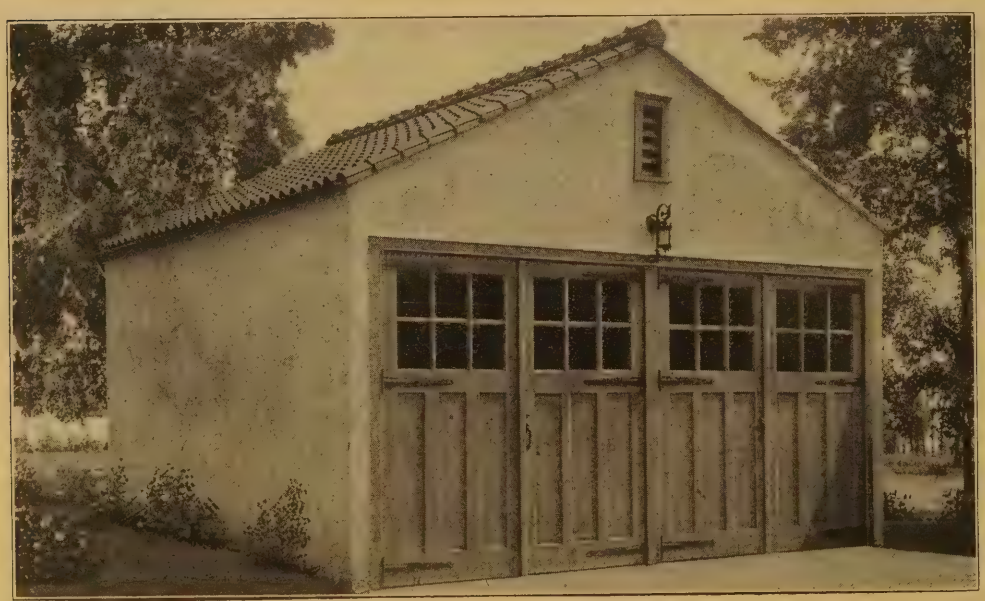
"The CHRYSLER" Garage

YOUR car needs protection as well as does other valuable property. A well-built garage with plenty of work space is not only a protection but is an asset as well.

SIZES:

Plan No. 1.....12 Ft. x 20 Ft.
Plan No. 2.....14 Ft. x 22 Ft.





"The LA FAYETTE" Garage

A PLEASING and valuable addition to any property and suitable to any seclusive neighborhood. Plenty of room and full protection for two cars.

SIZES:

Plan No. 1..18 Ft. 6 In. x 22 Ft.
Plan No. 2.....20 Ft. x 24 Ft.

Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

"The OAKLAND" Garage

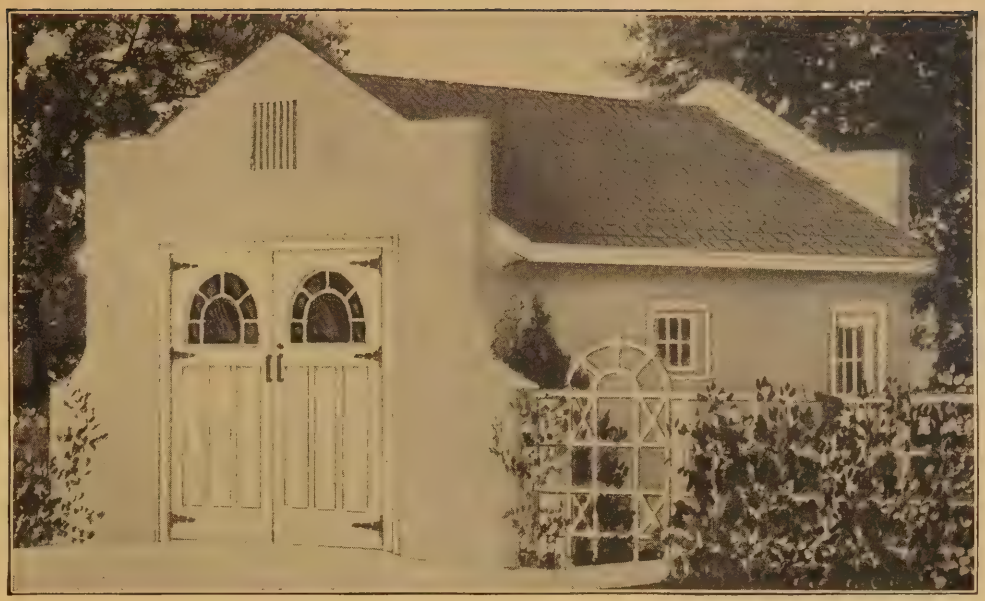
—o—

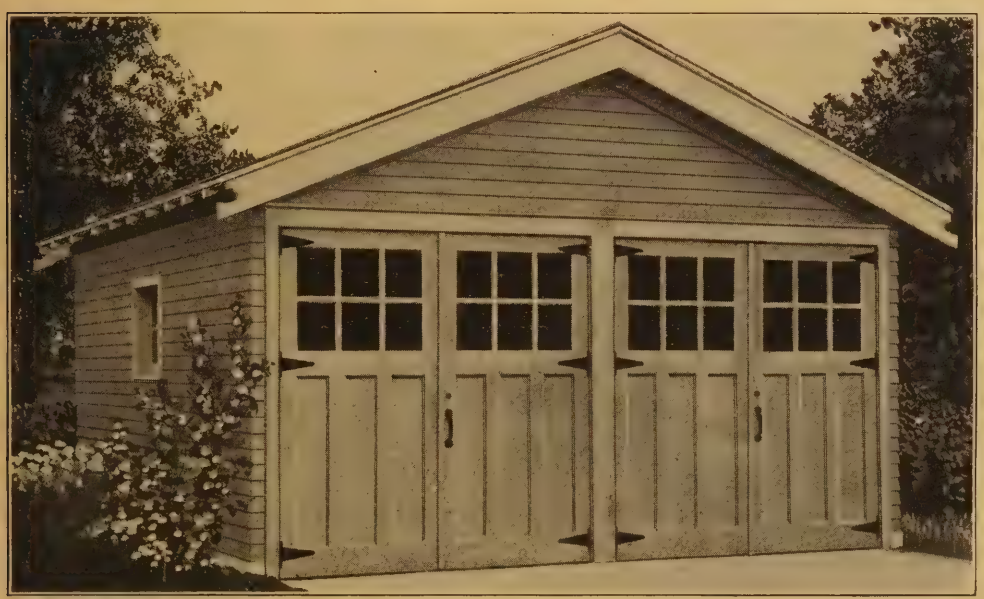
A ONE-CAR garage designed to match stucco homes of Spanish or similar types. Well constructed and economical.

—o—

SIZES:

Plan No. 1.....12 Ft. x 18 Ft.
Plan No. 2.....14 Ft. x 20 Ft.





"The FRANKLIN" Garage

—o—

A NEAT two-car garage of substantial construction. Plenty of room to work around both cars at the same time. Not costly but practical and serviceable.

—o—

SIZES:

Plan No. 1.....18 Ft. x 18 Ft.
Plan No. 2.....20 Ft. x 20 Ft.

"The HUDSON" Garage

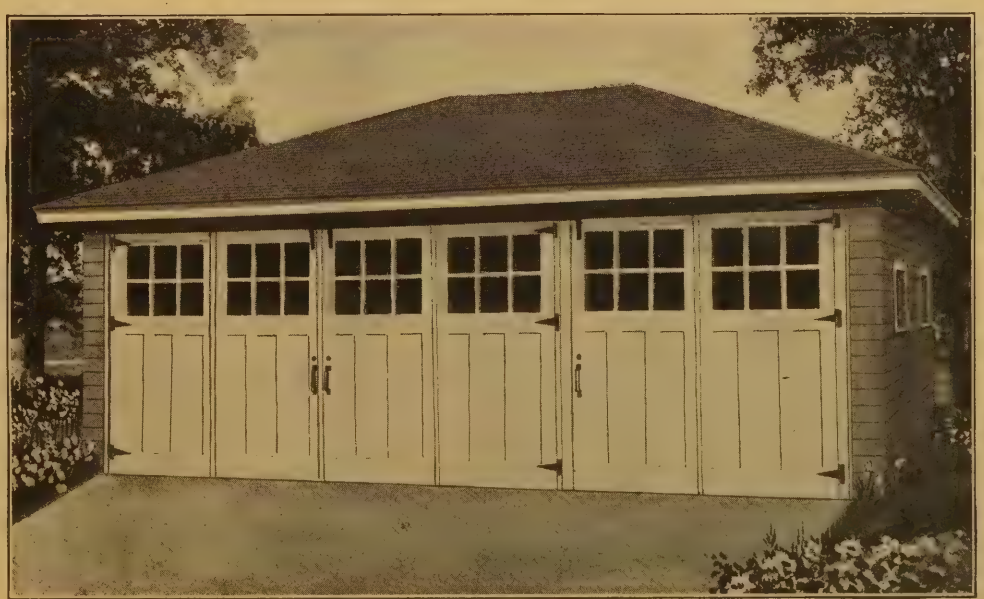
—o—

DESIGNED to accommodate three cars in a convenient manner. Plenty of space and work room around each car is provided.

—o—

SIZES:

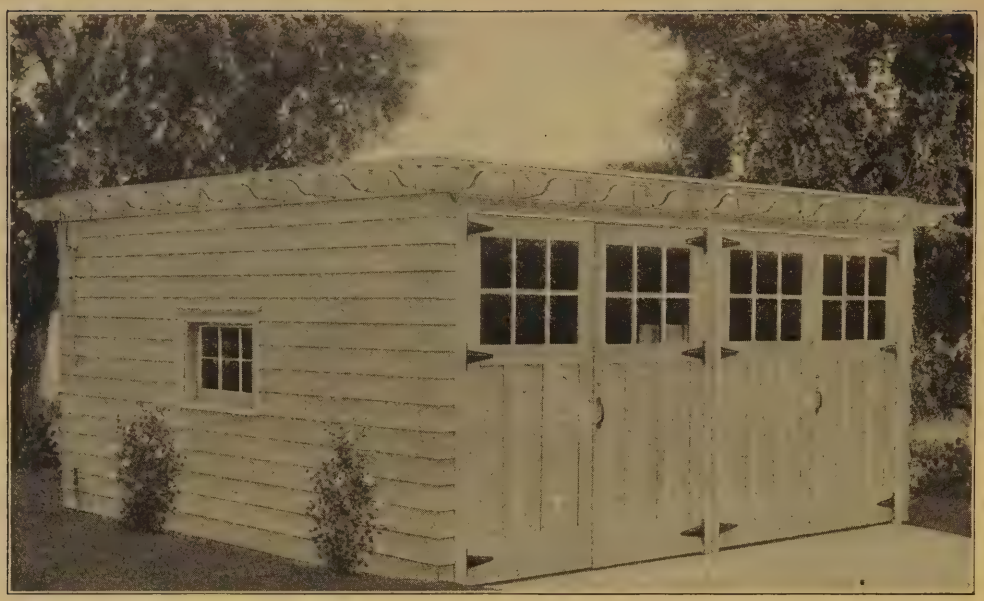
Plan No. 1.....28 Ft. x 20 Ft.
Plan No. 2.....30 Ft. x 22 Ft.



Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



"The STEARNS KNIGHT"

Garage

—o—

HANDSOME enough and pretentious enough for anyone at any location. Substantial hardware is a good investment in protection.

—o—

SIZES:

Plan No. 1.....18 Ft. x 20 Ft.
Plan No. 2.....20 Ft. x 22 Ft.

"The PEERLESS"

Garage

—o—

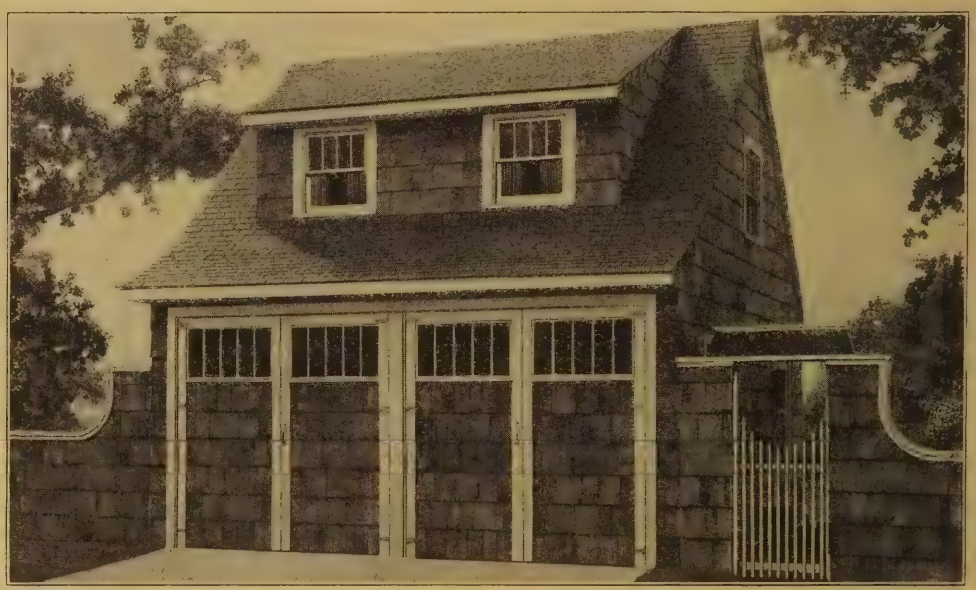
ACOMMODIOUS two-car design of solid, attractive construction. Adapted to sedan and roadster, touring car and truck or one half of garage may be rented.

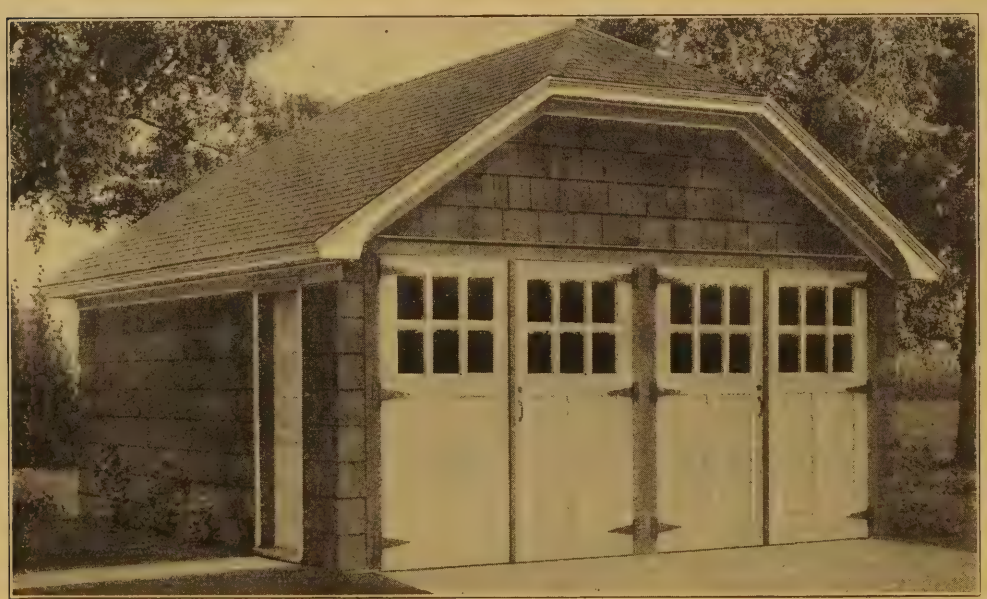
Space on second floor is convenient.

—o—

SIZES:

Plan No. 1..18 Ft. 8 In. x 24 Ft.
Plan No. 2.....20 Ft. x 24 Ft.





"The WILLYS KNIGHT"

Garage

—o—

THERE are no frills, yet it presents an attractive appearance. A selection of good hardware is important—it means protection.

—o—

SIZES:

Plan No. 1..18 Ft. 8 In. x 20 Ft.
Plan No. 2.....20 Ft. x 22 Ft.

Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

"The COLE" Garage

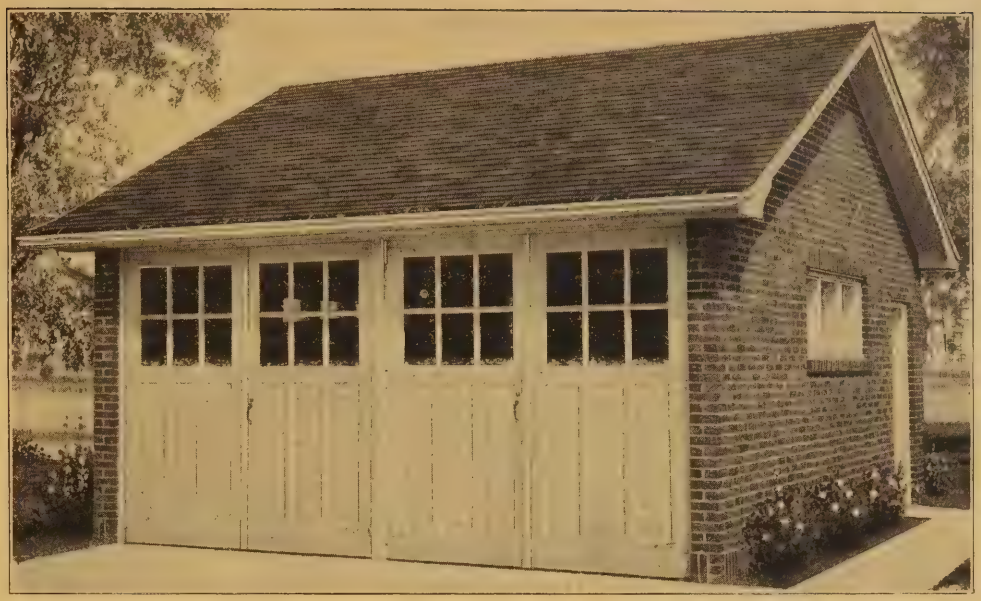
—o—

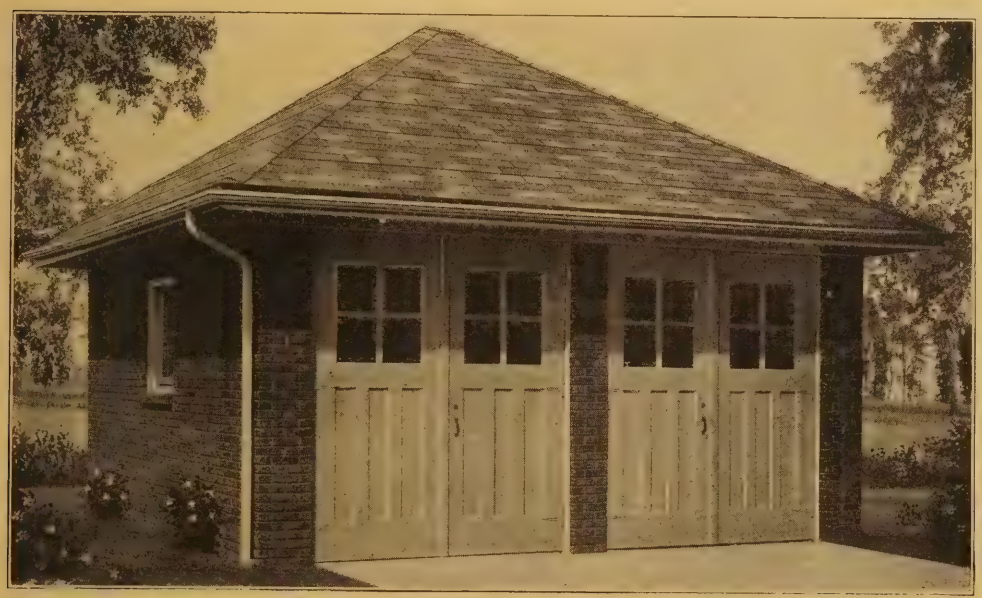
THIS garage is not only sturdy in construction but attractive and a suitable match for many brick homes. Plenty of work room for 2 cars.

—o—

SIZES:

Plan No. 1 ..18 Ft. 6 In. x 22 Ft.
Plan No. 2..20 Ft. 6 In. x 24 Ft.





"The CUNNINGHAM" Garage

—o—

THE illustration shows just how the garage looks after completion. Strong, attractive, with brick walls and room for 2 large cars.

—o—

SIZES:

Plan No. 1—
20 Ft. 8 In. x 21 Ft. 6 In.
Plan No. 2—
22 Ft. 10 In. x 23 Ft. 6 In.

"The DUESENBERG" Garage

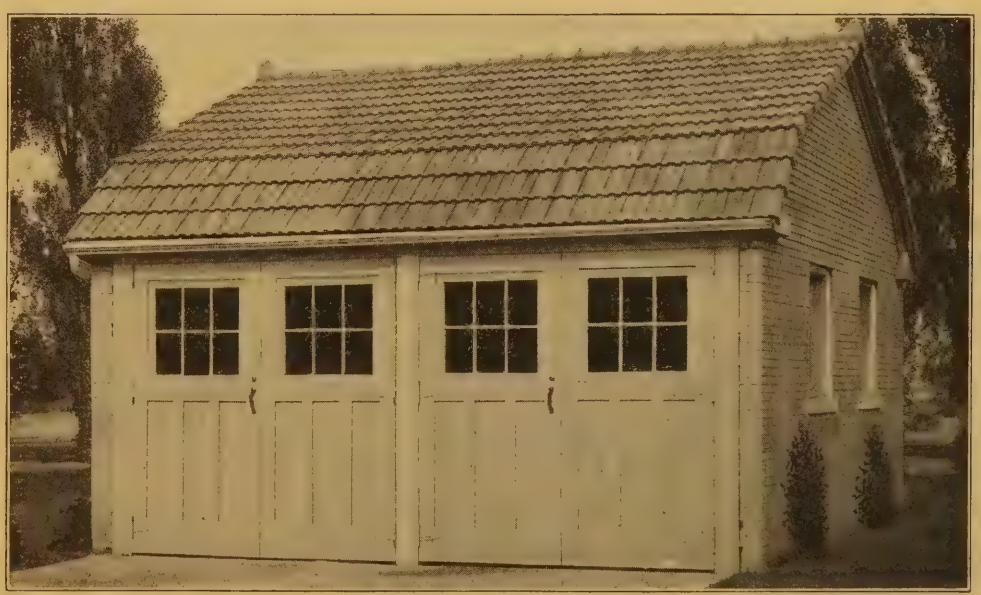
—o—

FACE brick walls and tile roof offer solid and attractive protection. This garage will match many attractive homes with similar roofs. Plans provide for plenty of work space for 2 cars of large size.

—o—

SIZES:

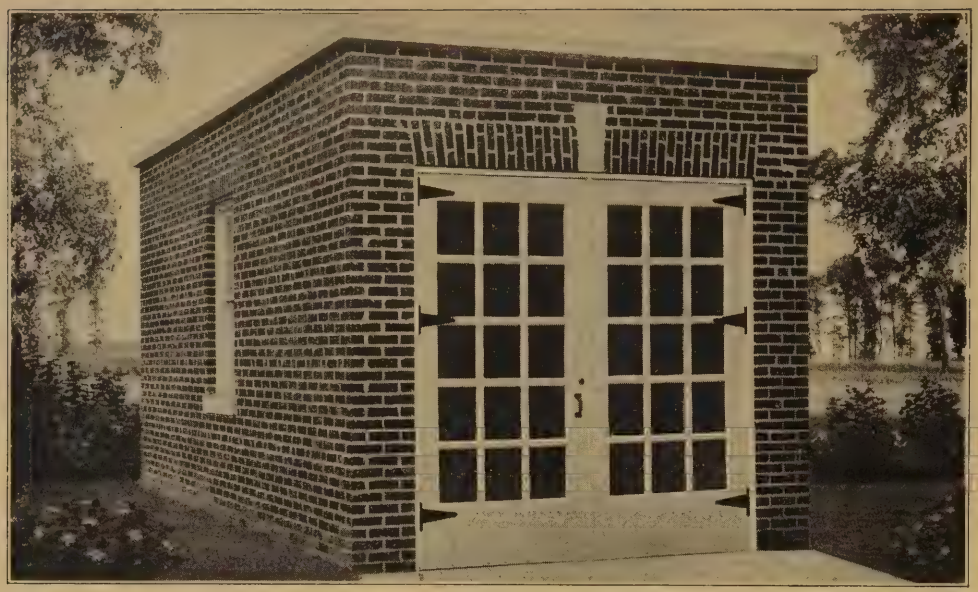
Plan No. 1—
19 Ft. 10 In. x 21 Ft. 6 In.
Plan No. 2—
21 Ft. 3 In. x 22 Ft. 6 In.



Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



"The KISSEL" Garage

—o—

"THE KISSELL" is designed to match any brick home. It can be built as a separate building as illustrated or it can be placed against the side walls of an existing structure.

—o—

SIZES:

Plan No. 1.....11 Ft. x 20 Ft.
Plan No. 2.....12 Ft. x 22 Ft.

"The STEPHEN" Garage

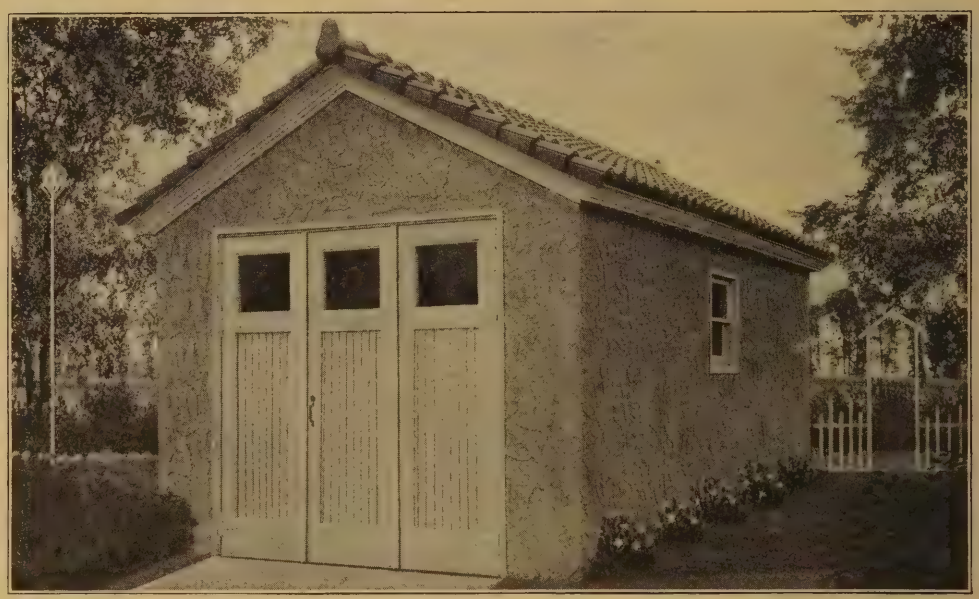
—o—

PLENTY of room to work around the car and plenty of light and ventilation. Not costly, but practical and serviceable. The stucco walls and tile roof is a substantial combination.

—o—

SIZES:

Plan No. 1.....12 Ft. x 18 Ft.
Plan No. 2.....14 Ft. x 20 Ft.





"The PIERCE ARROW" Garage

—o—

CONSIDER the design of your house and other buildings before you make your final decision. Perhaps this handsome two-car garage will meet your requirements.

—o—

SIZES:

Plan No. 1..20 Ft. 6 in. x 24 Ft.
Plan No. 2.....22 Ft. x 26 Ft.

Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

"The COLUMBIA" Garage

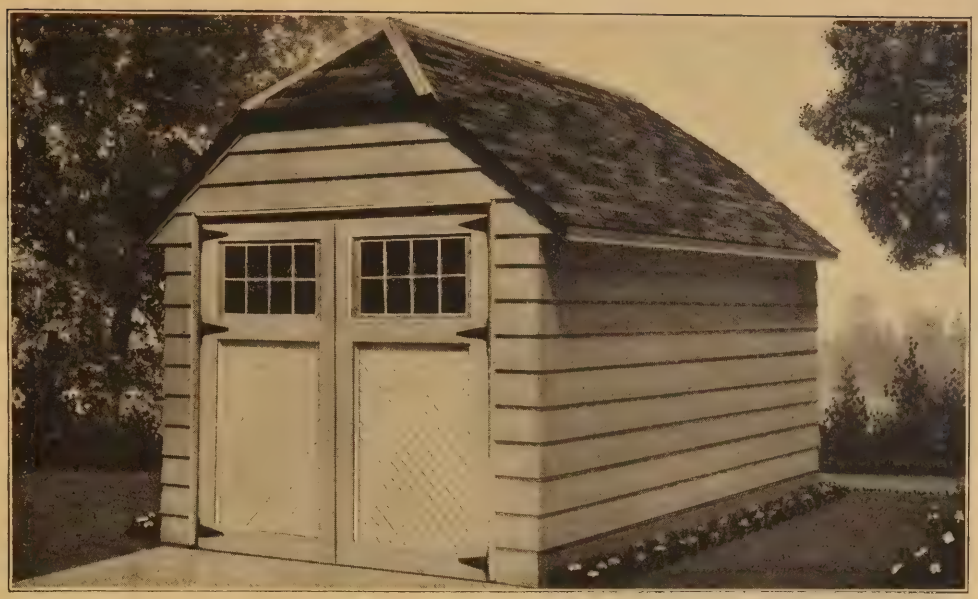
—o—

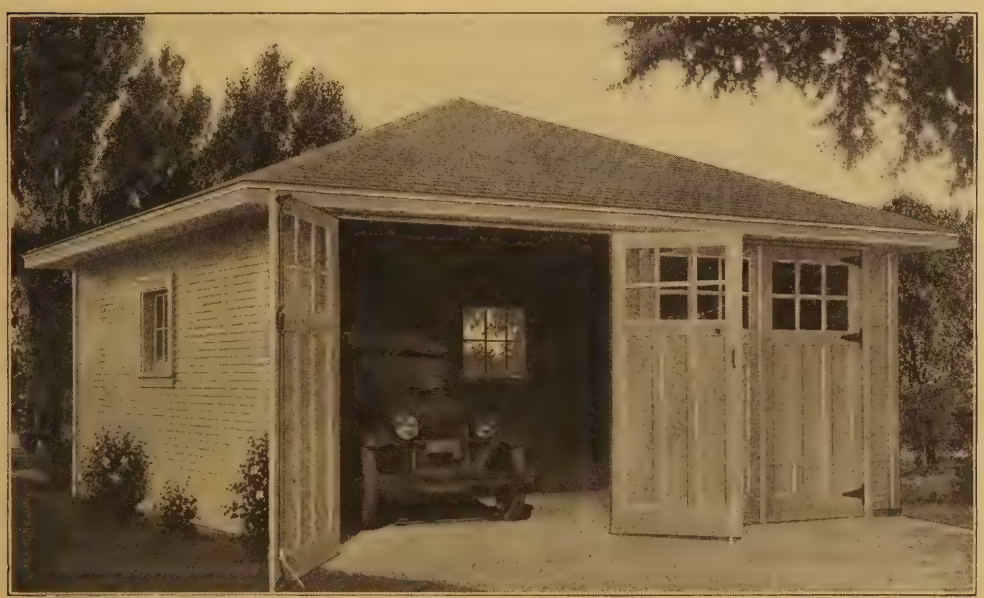
ATTRACTIVE, compact and warm. Designed to accommodate the medium sized car with sufficient space for work room.

—o—

SIZES:

Plan No. 1.....10 Ft. x 18 Ft.
Plan No. 2.....12 Ft. x 20 Ft.





"The MOON" Garage

—o—

"THE MOON" is well constructed and serviceable. It is made very practical by being equipped with labor saving hardware, which enables one to quickly open and close the large doors with the minimum amount of effort and time

—o—

SIZES:

Plan No. 1.....20 Ft. x 18 Ft.
Plan No. 2.....22 Ft. x 18 Ft.

"The MARMON" Garage

—o—

THE Tile Roof Cornice in front gives this two-car garage unusual distinction. Designed to accommodate the largest cars and still leave plenty of work space. Plans will give further particulars.

—o—

SIZES:

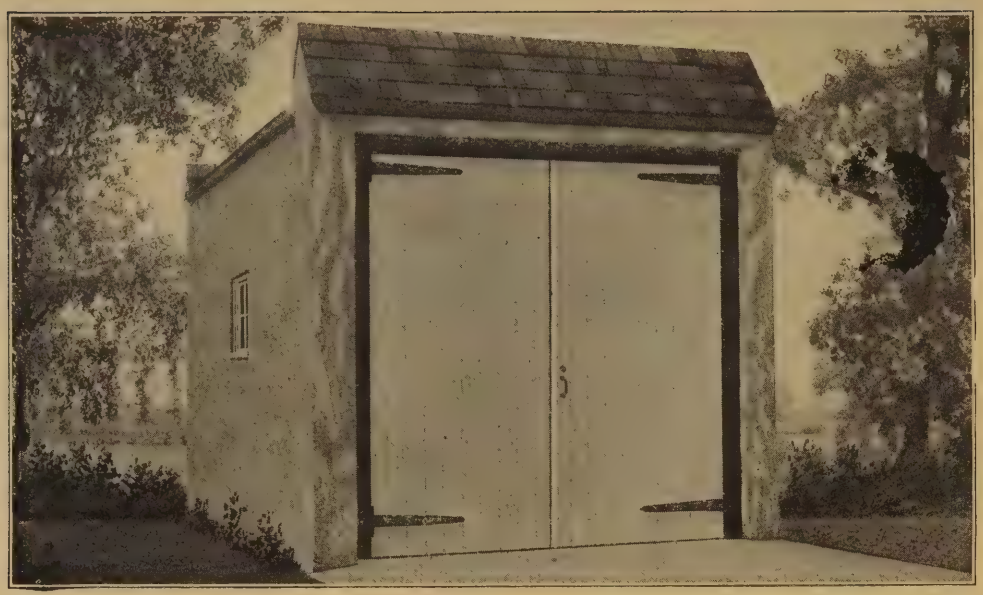
Plan No. 1..21 Ft. 3 in. x 22 Ft.
Plan No. 2..22 Ft. 3 in. x 24 Ft.



Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



"The DORT" Garage

THIS garage is designed to enable one to erect against one side of the home if one prefers. Or it can be built as a separate unit as shown in the illustration.

SIZES:

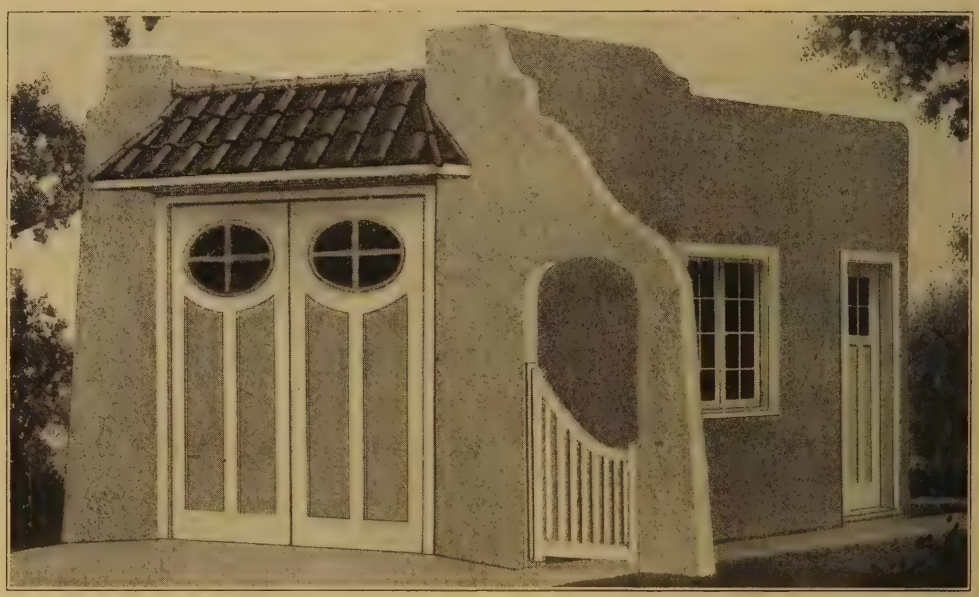
Plan No. 1.....10 Ft. x 18 Ft.
Plan No. 2.....12 Ft. x 20 Ft.

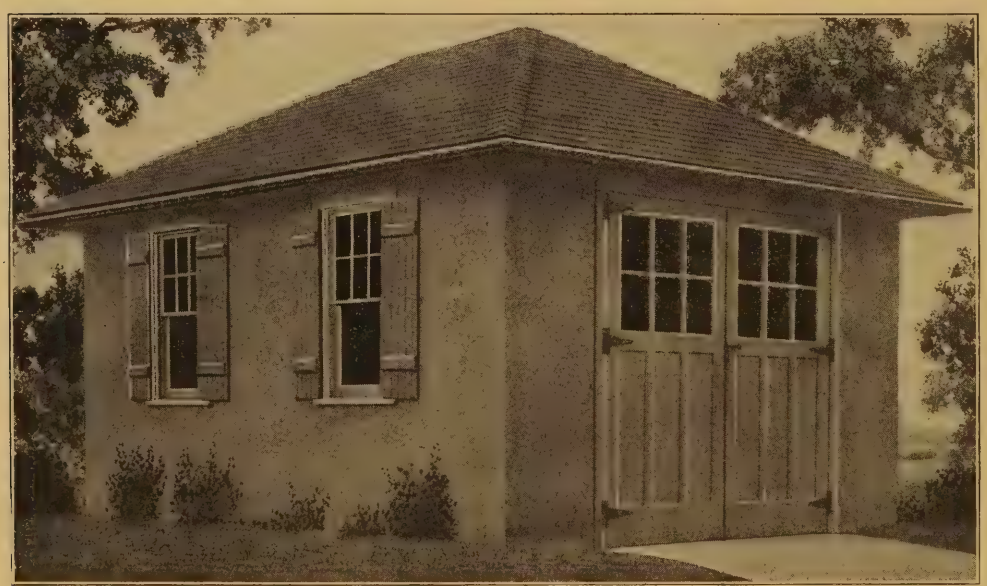
"The JORDAN" Garage

IF one erects a home of the Mediterranean type, then the garage should be of similar architecture and design. This garage, for instance, will match many homes of similar types.

SIZES:

Plan No. 1.....12 Ft. x 20 Ft.
Plan No. 2.....14 Ft. x 22 Ft.





"The OLDSMOBILE" Garage

ALL garages illustrated herein are of permanent and solid construction. They are designed to withstand the elements.

SIZES:

Plan No. 1.....14 Ft. x 18 Ft.
Plan No. 2.....14 Ft. x 20 Ft.

Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

"The FLINT" Garage

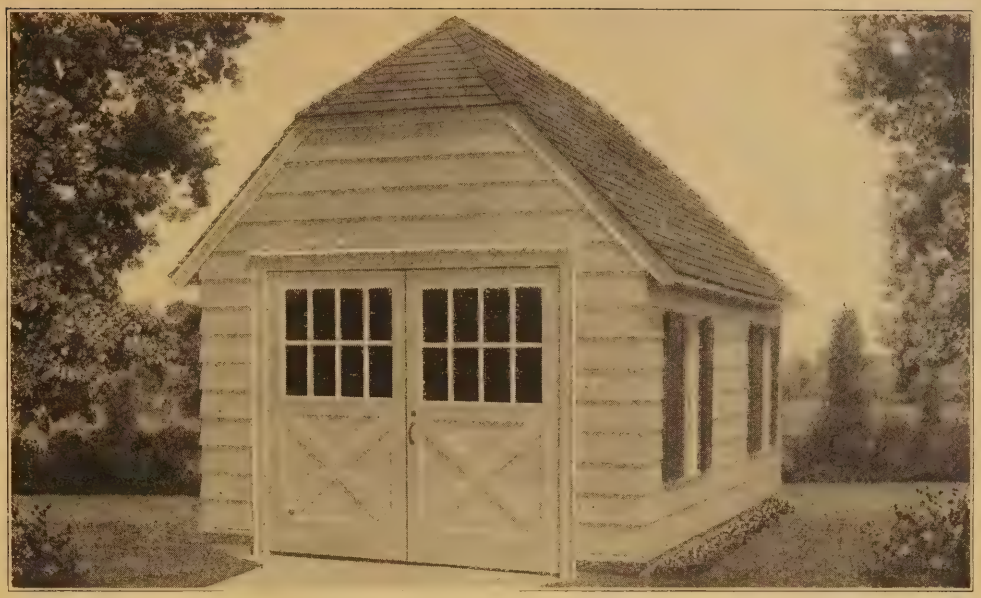
—o—

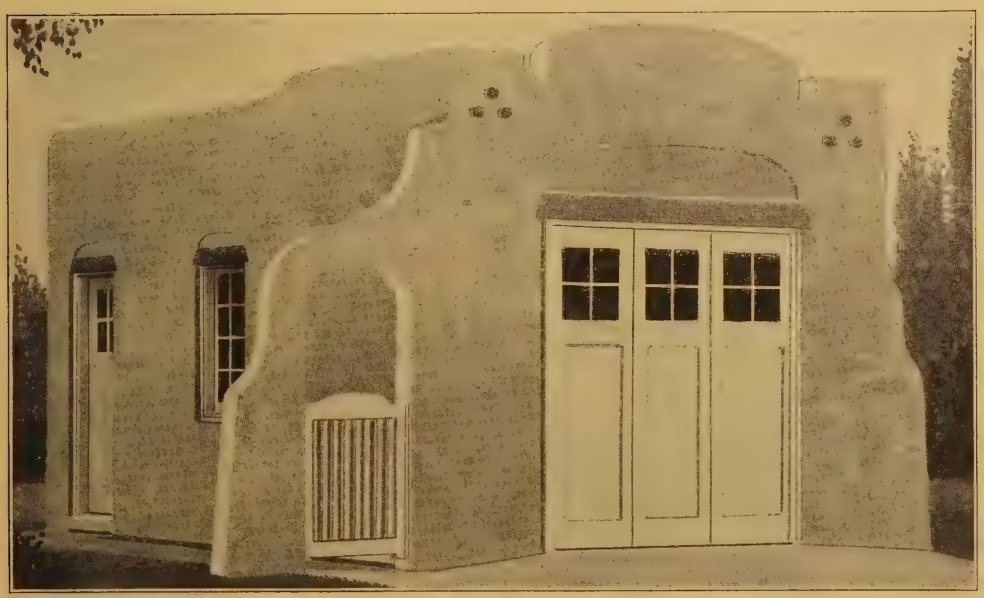
THESE garages are not particularly designed to shelter the car as suggested by the name of the garage, but are designed to accommodate many different cars.

—o—

SIZES:

Plan No. 1.....12 Ft. x 18 Ft.
Plan No. 2.....12 Ft. x 20 Ft.





"The MERCER" Garage

—o—

ON account of such an attractive quantity of garages illustrated herein, it is no great task to find one that will harmonize with the architecture of the home.

—o—

SIZES:

Plan No. 1.....14 Ft. x 22 Ft.
Plan No. 2.....16 Ft. x 22 Ft.

"The RICKENBACKER" Garage

—o—

DESIGNED to match a home with roof of similar type. The construction is simple yet substantial. Plans show all essential details.

—o—

SIZES:

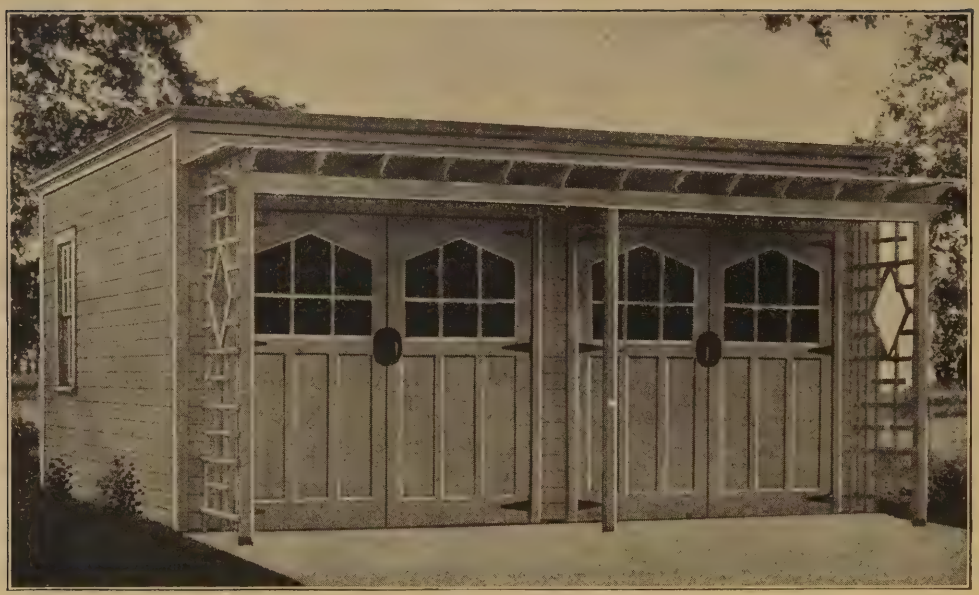
Plan No. 1.....12 Ft. x 18 Ft.
Plan No. 2.....14 Ft. x 20 Ft.



Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



"The HUPMOBILE" Garage

THE roofed Pergola is not only attractive but is a protection appreciated by those who tinker around their cars on rainy days and bad weather. A very serviceable garage for two cars.

SIZES:

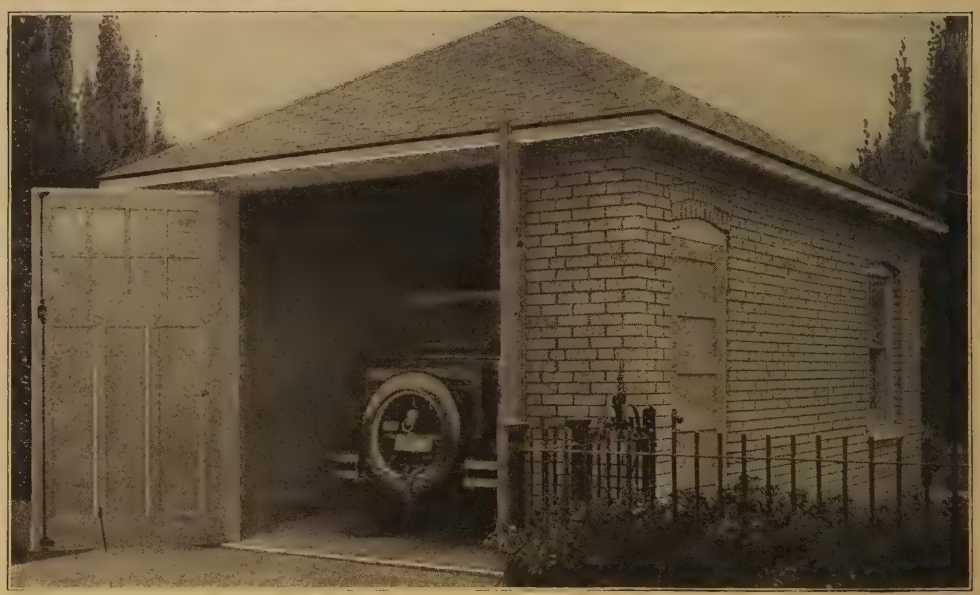
Plan No. 1.....20 Ft. x 18 Ft.
Plan No. 2.....22 Ft. x 20 Ft.

"The VELIE" Garage

BECAUSE a garage is attractive, well built and equipped with good labor saving hardware does not mean that it is expensive to build. You will be surprised when you learn the moderate costs of these garages.

SIZES:

Plan No. 1..12 Ft. 8 In. x 20 Ft.
Plan No. 2.....,14 Ft. x 20 Ft.





"The LOCOMOBILE" Garage

PROTECTION for the car and service for the driver are essential. This substantial garage will fill all requirements of the most exacting automobilist. Constructed of solid brick walls and equipped with strong, easy working hardware.

SIZES:

Plan No. 1..12 Ft. 4 In. x 22 Ft.
Plan No. 2.....13 Ft. x 24 Ft.

Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

"The STUDEBAKER" Garage

—o—

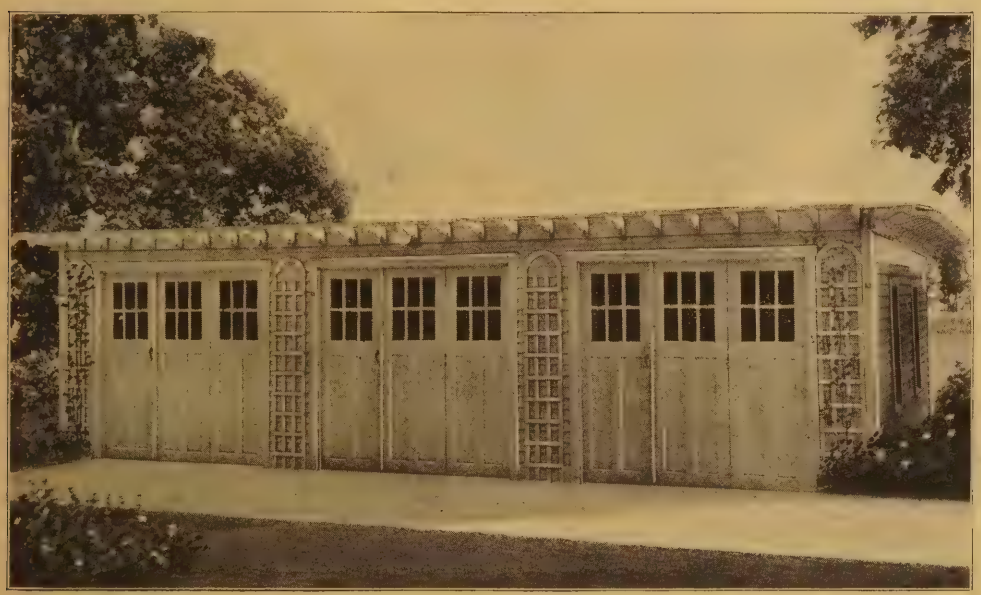
THIS beautiful half timbered stucco garage is designed not only to comfortably accommodate two cars, but to match up with similar types of stucco homes.

—o—

SIZES:

Plan No. 1.....20 Ft. x 20 Ft.
Plan No. 2.....22 Ft. x 22 Ft.





"The PAIGE" Garage

—o—

A THREE-CAR garage which will match almost any type of home. Provision is made for plenty of work room around each car.

—o—

SIZES:

Plan No. 1.....30 Ft. x 20 Ft.
Plan No. 2.....32 Ft. x 22 Ft.

"The CADILLAC" Garage

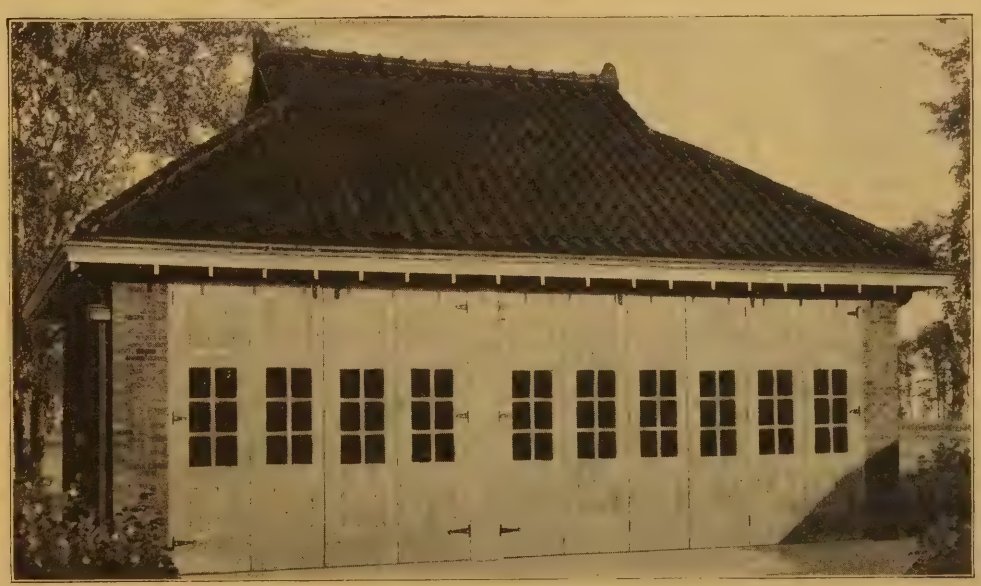
—o—

A GARAGE substantially designed in brick with tile roof. Will comfortably accommodate three large cars, with plenty of work space.

—o—

SIZES:

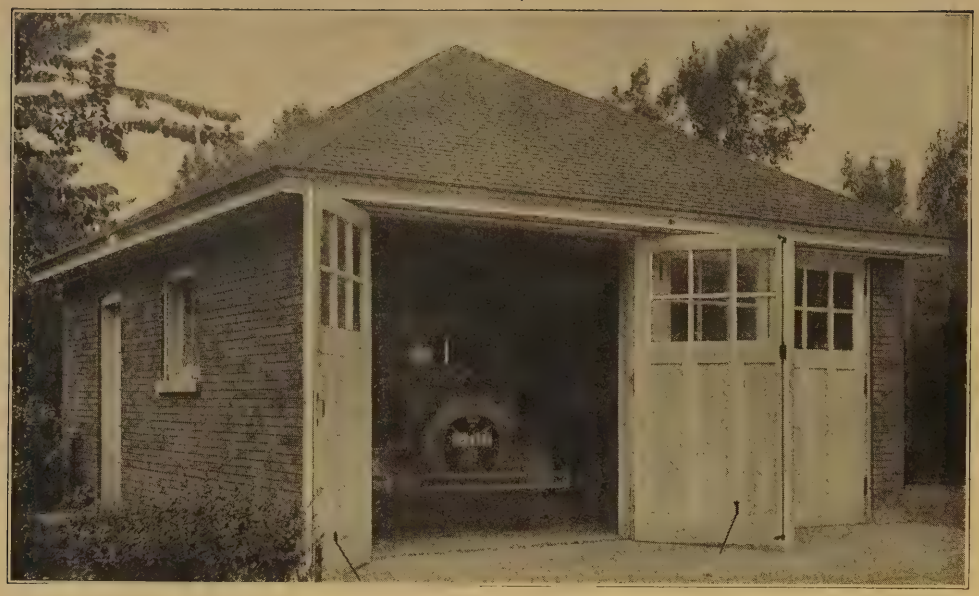
Plan No. 1.....32 Ft. x 20 Ft.
Plan No. 2.....34 Ft. x 22 Ft.



Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.



"The McFARLAN" Garage

THIS is a standard type of brick garage. It seems that many prefer this type because it is practical and durable. It is equipped with strong, time-saving hardware.

SIZES:

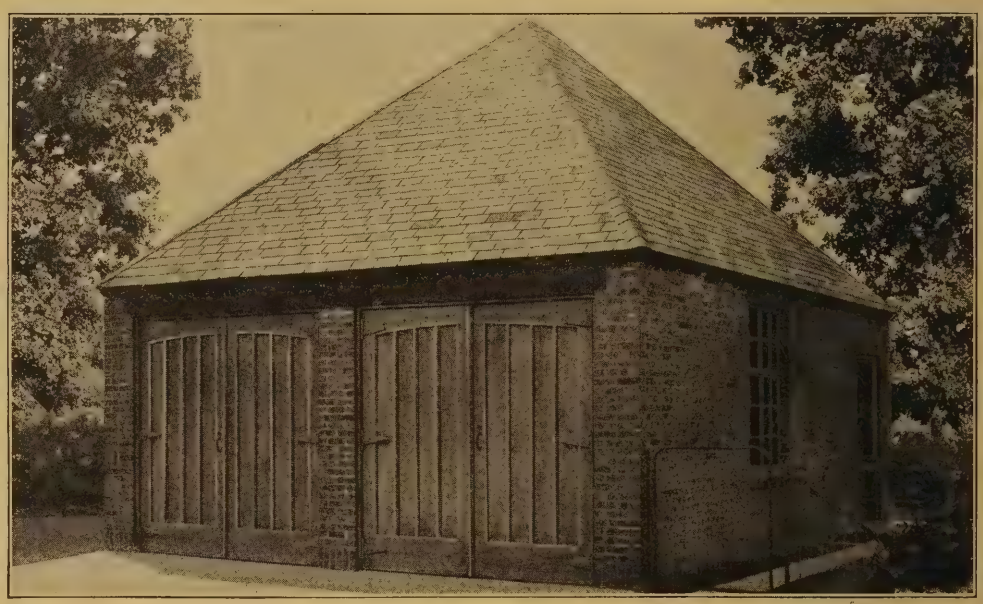
Plan No. 1.....20 Ft. x 22 Ft.
Plan No. 2.....22 Ft. x 24 Ft.

"The PACKARD" Garage

HERE is a well designed brick garage which will give the maximum service. Planned for two large cars with the essential work space. Plans give further particulars.

SIZES:

Plan No. 1..21 Ft. 3 In. x 24 Ft.
Plan No. 2..22 Ft. 3 In. x 26 Ft.





"The LINCOLN" Garage

THIS three-car garage offers plenty of space for working around the largest cars. A quick method for locking and unlocking the doors is used.

SIZES:

Plan No. 1.....27 Ft. x 24 Ft.
Plan No. 2 27 Ft. 9 In. x 26 Ft.

Two (2) Complete Sets Blue Print Working Plans With Material Bill For One Size of Any Above Designs..... $5.00

Secure above plans, etc., from your local Lumber or Building Material Dealer.

HOME BUILDERS CATALOG CO.
Chicago.—Rochester.—Detroit.—New York.

INDEX

Design	Page
Aaron	881
Abanda	771
Abbey	804
Abbott	552
Abel	840
Abercorn	542
Aberdeen	793
Aberdour	785
Aberfoyle	764
Abernathy	648
Abigail	564
Abila	575
Abilene	1011
Abington	546
Abner	942
Accomac	571
Accord	781
Accotink	959
Achilles	759
Ackley	777
Ackworth	934
Acmar	1005
Acme	763
Acoma	1001
Acora	683
Acorn	981
Acquaviva	868
Acres	525
Acton	952
Adaburg	1012
Adair	547
Adako	730
Adalanto	860
Adam	713
Adamant	597
Adamsburg	591
Addington	903
Addison	626
Adela	863
Adelaida	719
Adelino	673
Adelphi	733
Adena	999
Adernaunt	814
Adger	710
Adial	627
Adirondack	602
Adler	556
Admaston	707
Admiral	760
Adolphus	886
Adona	641
Adoniram	1004
Adstock	787
Advance	643
Aetna	758
Afton	801
Agate	521
Agawam	696
Agenda	617
Agerton	770
Agincourt	767
Agnos	995
Agora	716
Agosta	583
Agra	855
Aguila	969
Aguinaldo	890
Ahearn	991
Aiken	652
Ailston	927
Aimwell	1008
Ainger	1015
Ainsworth	639
Airdrie	698
Airmont	646
Ajax	685
Akely	582
Akron	877
Akutan	961
Alabama	720
Aladdin	524
Alaga	800
Alameda	676
Alamode	829
Alamota	841
Alanreed	837
Alarka	726
Alaska	847
Alaton	642
Alba	873
Albanel	573
Albano	624
Albany	605
Albermarle	832
Alberhill	936
Alberta	947
Alberton	577
Albia	528
Albion	680
Albrecht	665
Albuna	725
Alburgh	918
Alburnett	674
Alby	910
Alcade	929
Alcester	791
Alcino	990
Alco	828
Alcomdale	574
Alcony	880
Alcova	962
Aldeno	669
Alderdale	537
Aldergrove	834
Alderly	705
Alderson	930
Aldersyde	940
Aldine	909
Aldon	783
Aldrich	539
Aleda	672
Alembic	946
Alena	620
Alert	682
Alesia	687
Alex	677
Alexander	633
Alford	950
Algansee	979
Alger	911
Algerita	827
Algernon	701
Algoa	549
Algonquin	780
Alhambra	616
Alicia	985
Alinda	615
Alitak	876
Alkabo	718
Allaird	788
Allaire	558
Allais	567
Allamoore	813
Allan	795
Allanwood	925
Allbrook	548
Alledonia	774
Allegan	596
Allegany	945
Allenburg	891
Allene	699
Allerton	773
Alliance	928
Allinton	799
Allison	590
Allister	635
Alloway	737
Allsboro	589
Allyns	900
Almagro	595
Almena	526
Almeria	898
Almond	727
Almonte	926
Almora	805
Almota	723
Almyra	693
Aloma	691
Alonsa	973
Alpena	1014
Alpha	581
Alphaba	921
Alpine	894
Alpoca	649
Alport	689
Alps	560
Alsatia	857
Alsea	704
Alsen	853
Alsey	706
Alston	555
Alsuma	544
Alta	678
Altair	850
Altamont	790
Altapass	657
Altario	826
Alta Vista	782
Altecrest	895
Altenwald	899
Altera	820
Althorpe	746
Altoga	563
Alton	754
Altoona	907
Altro	992
Altura	830
Altus	897
Alvadore	844
Alvarado	797
Alvena	541
Alverda	638
Alverno	786
Alverton	901
Alvira	661
Alvis	724
Alviston	978
Alvord	668
Alzada	651
Amabile	831
Amado	983
Amadore	613
Amagon	621
Amalga	607
Amalti	861
Amaranth	854
Amaroda	848
Amber	636
Amberg	768
Amberley	535
Ambia	943
Amboy	632
Ambridge	540
Ambrose	598
Amedee	838
America	932
Ames	732
Amethyst	565
Amherst	679
Amigo	715
Amiot	823
Amiret	629
Amity	888
Ammirata	821
Ammon	628
Amorosa	851
Amsden	529
Amsterdam	568
Amston	971
Amulet	819
Anabel	740
Anaconda	663
Anamosa	835
Anatone	664
Ancaster	948
Anchor	1003
Anding	882
Andover	902
Andrew	640
Andrian	708
Angerona	864
Angiola	815
Anglaize	622
Angora	987
Anita	1009
Anjou	852
Ankerton	527
Anna Lee	884
Annandale	906
Annapolis	580
Ann Arbor	913
Annawalt	684
Anniston	915
Annona	671
Anoka	553
Ansiosa	870
Ansley	765
Antelope	849
Anthony	658
Antigo	954
Antioch	862
Antlers	609
Antoine	811
Antrim	545
Antwerp	776
Anvik	1000
Apache	1006
Apalachee	809
Apalona	998
Apollo	554
Apperson	893
Appleton	530
Appomattox	662
Apponaug	905
Apsley	745
Aquadale	977
Aquasco	988
Aquetong	986
Aragon	659
Arapahoe	869
Arbala	610
Arbella	694
Arboga	994
Arboles	958
Arbor	798
Arborg	593
Arborhill	603
Arbutus	865
Arcadia	647
Arcanum	996
Arch	966
Archbold	993
Archcliff	904
Archer	949
Archive	965
Archuleta	714
Arcola	866
Arcus	625
Ardara	769
Ardel	711
Arden	619
Arditta	824
Ardmagh	842
Ardmore	778
Ardness	717
Ardoch	951
Ardsley	775
Argenta	756
Argo	875
Argolis	744
Argonia	975
Argonne	536
Argosy	752
Argus	761
Argyle	757
Arietta	856
Ariole	874
Arion	569
Ariosa	675
Ariss	653
Arista	681
Ariton	608
Arizona	660
Arkalon	709
Arkansas	656
Arkdell	722
Arkell	984
Arkinda	739
Arkley	796
Arkoma	963
Arkwright	599
Arley	736
Arling	551
Arlington	922
Arlomont	766
Arma	618
Armada	584
Armadale	846
Armand	644
Armida	839
Armington	887
Arminto	845
Armistad	872
Armitage	892
Armorel	1007
Armour	522
Arms	836
Armstead	792
Armstrong	937
Arnaud	631
Arnold	531
Arnot	953
Aromas	858
Aroya	989
Arrant	816
Arriba	654
Arrow	667
Arrowood	614
Arstine	532
Artemas	955
Artesian	914
Artex	833
Arthyde	738
Artland	611
Artois	734
Arvada	604
Arvel	533
Arvonia	976
Arundel	612
Asbury	731
Ashaway	670
Ashbourne	938
Ashby	623
Ashcroft	579
Asherton	550
Ashford	917
Ashfork	561
Ashippun	982
Ashkum	697
Ashland	939
Ashmont	751
Ashtabula	843
Ashtola	941
Ashton	762
Ashuelot	601
Ashurst	666
Ashville	637
Askew	964
Askin	883
Asotin	655
Aspermont	806
Aspetuck	690
Aspgrove	878
Aspinwall	692
Assumption	957
Assunta	859
Assyria	974
Astor	908
Atchinson	956
Atco	695
Athalmler	700
Athens	808
Atherley	935
Atherton	802
Athlone	742
Athol	686
Atkins	634
Atlanta	779
Atlanthus	712
Atlantic	592
Atlas	606
Atlin	702
Atmore	645
Atolia	735
Atoka	600
Attercliff	586
Attica	967
Attila	650
Attleboro	753
Atwater	933
Atwell	970
Atwood	572
Auberry	562
Aubigny	960
Auburn	566
Auburndale	755
Aucilla	812
Audley	585
Audubon	721
Augusta	867
Aulander	570
Aulich	944
Aultman	1010
Aurantia	871
Aurelia	728
Aurelle	980
Aurey	741
Aurich	534
Auricula	818
Aurilla	807
Aurora	794
Ausable	810
Austin	538
Australia	919
Auter	879
Autney	576
Autumn	588
Auvergne	912
Avalon	743
Avawam	729
Avena	594
Avenstoke	688
Aventia	817
Avenue	587
Avera	630
Averett	923
Averill	543
Avers	924
Avesta	916
Avignon	997
Avilla	822
Avoca	578
Avon	784
Avondale	920
Avonmore	885
Axis	703
Axtell	557
Ayden	1002
Aydlett	1013
Ayers	789
Aylesbury	523
Aylesford	968
Aylmer	931
Aylor	972
Aynor	803
Ayrshire	772
Azalia	889
Azilda	559
Azteck	896
Azurea	825
Chatauqua	749
Mankato	747
Miami	750
Mineola	749
Oconto	748
Onondago	750
Owasco	747
Pewaukee	750
Saranac	748
Saratoga	747
Shawano	748
Winnebago	749

GARAGES

Buick	1016
Cadillac	1031
Case	1019
Chandler	1021
Chevrolet	1017
Chrysler	1022
Cleveland	1019
Cole	1025
Columbia	1027
Cunningham	1025
Dodge	1016
Dort	1028
Duesenberg	1025
Earl	1021
Essex	1018
Flint	1029
Ford	1017
Franklin	1023
Gray	1017
Hudson	1023
Hupmobile	1030
Jewett	1018
Jordan	1028
Kissel	1026
La Fayette	1022
Lincoln	1032
Locomobile	1030
Marmon	1027
Maxwell	1020
McFarlan	1032
Mercer	1029
Moon	1027
Nash	1018
Oakland	1023
Oldsmobile	1028
Overland	1020
Packard	1032
Paige	1031
Peerless	1024
Pierce Arrow	1026
Reo	1016
Rickenbacker	1029
Star	1020
Stearns Knight	1024
Stephen	1026
Studebaker	1031
Stutz	1019
Velie	1030
Westcott	1022
Willys Knight	1024
Winton	1021

90-B20610



For practically every risk a contractor takes there is a Hartford policy

The Hartford Fire Insurance Company writes:

Builders Risk Insurance
Automobile Insurance
Business Interruption Insurance
Earthquake Insurance
Explosion Insurance
Flood Insurance
Rain Insurance
Rent Insurance
Riot and Civil Commotion Insurance
Sprinkler Leakage Insurance
Windstorm Insurance
Merchandise in Transit Insurance

The Hartford Accident and Indemnity Company writes:

Accident and Health Insurance
Automobile Insurance
Burglary and Theft Insurance
All Kinds of Liability Insurance
Fidelity and Surety Bonds
Plate Glass Insurance
Workman's Compensation Insurance
Forgery & Check Alteration Insurance

(And Draft Horses and Mules may be insured in the Hartford Live Stock Insurance Company)

There is a Hartford agent near you. He will see that you are properly protected. Write us if you wish to know his name. The Hartford has insured the property owners of America since 1810.

HARTFORD FIRE INSURANCE CO.

HARTFORD, CONN.

[Write for our booklet "The Hartford's Answer"
It tells about our free engineering service]

GETTY CENTER LIBRARY
3 3125 00009 1203